

<110> Ruben et al.

<120> 26 Human secreted proteins

<130> PZ040P1

<140> Unassigned

<141> 2000-12-01

<150> PCT/US00/15187

<151> 2000-06-02

<150> 60/137,725

<151> 1999-06-07

<160> 190

<170> PatentIn Ver. 2.0

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<211> 733

<212> DNA

<213> Homo sapiens

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<210> 2

<211> 5

<212> PRT

<213> Homo sapiens

<220>

<221> Site

<222> (3)

<223> Xaa equals any of the twenty naturally occurring L-amino acids

<400> 2

Trp Ser Xaa Trp Ser

1

5

<210> 3

<211> 86

<212> DNA
 <213> Artificial Sequence
 <220>
 <221> Primer_Bind
 <223> Synthetic sequence with 4 tandem copies of the GAS binding site found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)), 18 nucleotides complementary to the SV40 early promoter, and a Xho I restriction site.

<400> 3
 gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60
 cccgaaatat ctgccatctc aattag 86

<210> 4
 <211> 27
 <212> DNA
 <213> Artificial Sequence
 <220>
 <221> Primer_Bind
 <223> Synthetic sequence complementary to the SV40 promoter; includes a Hind III restriction site.

<400> 4
 gcggcaagct ttttgcaaag cctaggg 27

<210> 5
 <211> 271
 <212> DNA
 <213> Artificial Sequence
 <220>
 <221> Protein_Bind
 <223> Synthetic promoter for use in biological assays; includes GAS binding sites found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)).

<400> 5
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 gccctaact ccgcccagtt ccgcccattc tccgcccatt ggctgactaa ttttttttat 180
 ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240
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<210> 6
 <211> 32
 <212> DNA
 <213> Artificial Sequence
 <220>
 <221> Primer_Bind
 <223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Xho I restriction site.

<400> 6
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<210> 7
 <211> 31
 <212> DNA
 <213> Artificial Sequence
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 <221> Primer_Bind
 <223> Synthetic primer complementary to human genomic EGR-1 promoter
 sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Hind III
 restriction site.

<400> 7
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<210> 8
 <211> 12
 <212> DNA
 <213> Homo sapiens

<400> 8
 ggggactttc cc 12

<210> 9
 <211> 73
 <212> DNA
 <213> Artificial Sequence
 <220>
 <221> Primer_Bind
 <223> Synthetic primer with 4 tandem copies of the NF-KB binding site
 (GGGGACTTTCCC), 18 nucleotides complementary to the 5' end of the SV40
 early promoter sequence, and a XhoI restriction site.

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 ccatctcaat tag 73

<210> 10
 <211> 256
 <212> DNA
 <213> Artificial Sequence
 <220>
 <221> Protein_Bind
 <223> Synthetic promoter for use in biological assays; includes NF-KB
 binding sites.

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 caattagtca gcaaccatag tcccgccct aactccgccc atcccgcccc taactccgcc 120
 cagttccgcc cattctccgc cccatggctg actaatTTTT tttatttatg cagaggccga 180
 ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240
 cttttgcaaa aagctt 256

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 <211> 2318
 <212> DNA

<213> Homo sapiens

<400> 11

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<210> 12

<211> 1923

<212> DNA

<213> Homo sapiens

<400> 12

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<212> DNA
<213> Homo sapiens
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<210> 14
<211> 1576

<212> DNA
<213> Homo sapiens

<400> 14

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<212> DNA
<213> Homo sapiens

<400> 15

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 <213> Homo sapiens

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 <211> 2601
 <212> DNA
 <213> Homo sapiens

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<211> 2229

<212> DNA

<213> Homo sapiens

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<211> 1232

<212> DNA

<213> Homo sapiens

<400> 19

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<210> 20
<211> 1307
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<220>
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<223> n equals a,t,g, or c

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<210> 21
<211> 1052
<212> DNA
<213> Homo sapiens

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<210> 27

<211> 1257

<212> DNA

<213> Homo sapiens

<400> 27

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<210> 28

<211> 1181

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (903)

<223> n equals a,t,g, or c

<400> 28

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 <211> 1524
 <212> DNA
 <213> Homo sapiens

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<210> 30
 <211> 1597
 <212> DNA
 <213> Homo sapiens

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<210> 31
<211> 1759
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (618)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (1095)
<223> n equals a,t,g, or c

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<210> 32

<211> 2100

<212> DNA

<213> Homo sapiens

<400> 32

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2100

<210> 33

<211> 2333

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (430)

<223> n equals a,t,g, or c

<400> 33

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<211> 409

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2004-11-04 14:00

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA
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<400> 43

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aataaacatg	caaataaatg	tacaacgtcg	tgactgggaa	aaccctggcg	ttacccaact	2160
aatcgccctg	cagcacatcc	ccctttcgcc	agctggcgta	atagcgaaga	gcccgaccga	2220
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<210> 45
 <211> 1707
 <212> DNA
 <213> Homo sapiens

<400> 45

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 ccattcacat cagatggact tgtgtctctt gcactagtct atgagatttg gatgtctgtg 360
 tccttagggc ccaagctggc cactctggcc cagaagcagc ctggggccat gtcttgtcta 420
 caggggtgtg ggggacagta tgtgcacccc cttgctttct caggtggact ttgaacagct 480
 gactgagaac ctggggcagc tggagcgccg gagccgggca gccgaggaga gcctgaggac 540
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 tcatggacct tctggtgcag tcagtacca agagcagtc tcgtgcctta gctgctaggg 1260
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 ccacctgaac cccatcaacc cctccaacc ctgctctgtc cctgcagtga gaaggacgtt 1380
 gaagagtggg ctcgagatg acctggtgca ggcactggga ctaagcaagg gtcctggcct 1440
 ggaggtgtga aggtgctgta tcccggaaat ctatctggc cctggactgc agtgcaggag 1500
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 catgccttga gcagtattag ccgtgtgtgt atgcatgtga gtgtgtgtgt atgtgtgtgt 1620
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<210> 46

<211> 453

<212> PRT

<213> Homo sapiens

<400> 46

Met Arg Lys Lys Trp Lys Met Gly Gly Met Lys Tyr Ile Phe Ser Leu
 1 5 10 15

Leu Phe Phe Leu Leu Glu Gly Gly Lys Thr Glu Gln Val Lys His
 20 25 30

Ser Glu Thr Tyr Cys Met Phe Gln Asp Lys Lys Tyr Arg Val Gly Glu
 35 40 45

Arg Trp His Pro Tyr Leu Glu Pro Tyr Gly Leu Val Tyr Cys Val Asn
 50 55 60

Cys Ile Cys Ser Glu Asn Gly Asn Val Leu Cys Ser Arg Val Arg Cys
 65 70 75 80

Pro Asn Val His Cys Leu Ser Pro Val His Ile Pro His Leu Cys Cys
 85 90 95

Pro Arg Cys Pro Glu Asp Ser Leu Pro Pro Val Asn Asn Lys Val Thr
 100 105 110

Ser Lys Ser Cys Glu Tyr Asn Gly Thr Thr Tyr Gln His Gly Glu Leu

115						120						125					
Phe	Val	Ala	Glu	Gly	Leu	Phe	Gln	Asn	Arg	Gln	Pro	Asn	Gln	Cys	Thr		
130						135					140						
Gln	Cys	Ser	Cys	Ser	Glu	Gly	Asn	Val	Tyr	Cys	Gly	Leu	Lys	Thr	Cys		
145					150					155					160		
Pro	Lys	Leu	Thr	Cys	Ala	Phe	Pro	Val	Ser	Val	Pro	Asp	Ser	Cys	Cys		
				165					170					175			
Arg	Val	Cys	Arg	Gly	Asp	Gly	Glu	Leu	Ser	Trp	Glu	His	Ser	Asp	Gly		
			180					185					190				
Asp	Ile	Phe	Arg	Gln	Pro	Ala	Asn	Arg	Glu	Ala	Arg	His	Ser	Tyr	His		
		195					200					205					
Arg	Ser	His	Tyr	Asp	Pro	Pro	Pro	Ser	Arg	Gln	Ala	Gly	Gly	Leu	Ser		
	210					215					220						
Arg	Phe	Pro	Gly	Ala	Arg	Ser	His	Arg	Gly	Ala	Leu	Met	Asp	Ser	Gln		
225				230						235					240		
Gln	Ala	Ser	Gly	Thr	Ile	Val	Gln	Ile	Val	Ile	Asn	Asn	Lys	His	Lys		
				245				250						255			
His	Gly	Gln	Val	Cys	Val	Ser	Asn	Gly	Lys	Thr	Tyr	Ser	His	Gly	Glu		
			260					265					270				
Ser	Trp	His	Pro	Asn	Leu	Arg	Ala	Phe	Gly	Ile	Val	Glu	Cys	Val	Leu		
		275				280						285					
Cys	Thr	Cys	Asn	Val	Thr	Lys	Gln	Glu	Cys	Lys	Lys	Ile	His	Cys	Pro		
	290					295					300						
Asn	Arg	Tyr	Pro	Cys	Lys	Tyr	Pro	Gln	Lys	Ile	Asp	Gly	Lys	Cys	Cys		
305					310					315					320		
Lys	Val	Cys	Pro	Glu	Glu	Leu	Pro	Gly	Gln	Ser	Phe	Asp	Asn	Lys	Gly		
			325					330						335			
Tyr	Phe	Cys	Gly	Glu	Glu	Thr	Met	Pro	Val	Tyr	Glu	Ser	Val	Phe	Met		
			340				345						350				
Glu	Asp	Gly	Glu	Thr	Thr	Arg	Lys	Ile	Ala	Leu	Glu	Thr	Glu	Arg	Pro		
		355					360					365					
Pro	Gln	Val	Glu	Val	His	Val	Trp	Thr	Ile	Arg	Lys	Gly	Ile	Leu	Gln		
						375					380						
His	Phe	His	Ile	Glu	Lys	Ile	Ser	Lys	Arg	Met	Phe	Glu	Glu	Leu	Pro		
385					390					395					400		
His	Phe	Lys	Leu	Val	Thr	Arg	Thr	Thr	Leu	Ser	Gln	Trp	Lys	Ile	Phe		
			405					410						415			
Thr	Glu	Gly	Glu	Ala	Gln	Ile	Ser	Gln	Met	Cys	Ser	Ser	Arg	Val	Cys		
			420					425					430				

1004244.044000

Arg Thr Glu Leu Glu Asp Leu Val Lys Val Leu Tyr Leu Glu Arg Ser
 435 440 445

Glu Lys Gly His Cys
 450

<210> 47

<211> 446

<212> PRT

<213> Homo sapiens

<400> 47

Met Leu His Pro Glu Thr Ser Pro Gly Arg Gly His Leu Leu Ala Val
 1 5 10 15

Leu Leu Ala Leu Leu Gly Thr Ala Trp Ala Glu Val Trp Pro Pro Gln
 20 25 30

Leu Gln Glu Gln Ala Pro Met Ala Gly Ala Leu Asn Arg Lys Glu Ser
 35 40 45

Phe Leu Leu Leu Ser Leu His Asn Arg Leu Arg Ser Trp Val Gln Pro
 50 55 60

Pro Ala Ala Asp Met Arg Arg Leu Asp Trp Ser Asp Ser Leu Ala Gln
 65 70 75 80

Leu Ala Gln Ala Arg Ala Ala Leu Cys Gly Ile Pro Thr Pro Ser Leu
 85 90 95

Ala Ser Gly Leu Trp Arg Thr Leu Gln Val Gly Trp Asn Met Gln Leu
 100 105 110

Leu Pro Ala Gly Leu Ala Ser Phe Val Glu Val Val Ser Leu Trp Phe
 115 120 125

Ala Glu Gly Gln Arg Tyr Ser His Ala Ala Gly Glu Cys Ala Arg Asn
 130 135 140

Ala Thr Cys Thr His Tyr Thr Gln Leu Val Trp Ala Thr Ser Ser Gln
 145 150 155 160

Leu Gly Cys Gly Arg His Leu Cys Ser Ala Gly Gln Ala Ala Ile Glu
 165 170 175

Ala Phe Val Cys Ala Tyr Ser Pro Gly Gly Asn Trp Glu Val Asn Gly
 180 185 190

Lys Thr Ile Ile Pro Tyr Lys Lys Gly Ala Trp Cys Ser Leu Cys Thr
 195 200 205

Ala Ser Val Ser Gly Cys Phe Lys Ala Trp Asp His Ala Gly Gly Leu
 210 215 220

Cys Glu Val Pro Arg Asn Pro Cys Arg Met Ser Cys Gln Asn His Gly
 225 230 235 240

207500-04400

Arg Leu Asn Ile Ser Thr Cys His Cys His Cys Pro Pro Gly Tyr Thr
245 250 255

Gly Arg Tyr Cys Gln Val Arg Cys Ser Leu Gln Cys Val His Gly Arg
260 265 270

Phe Arg Glu Glu Glu Cys Ser Cys Val Cys Asp Ile Gly Tyr Gly Gly
275 280 285

Ala Gln Cys Ala Thr Lys Val His Phe Pro Phe His Thr Cys Asp Leu
290 295 300

Arg Ile Asp Gly Asp Cys Phe Met Val Ser Ser Glu Ala Asp Thr Tyr
305 310 315 320

Tyr Arg Ala Arg Met Lys Cys Gln Arg Lys Gly Gly Val Leu Ala Gln
325 330 335

Ile Lys Ser Gln Lys Val Gln Asp Ile Leu Ala Phe Tyr Leu Gly Arg
340 345 350

Leu Glu Thr Thr Asn Glu Val Ile Asp Ser Asp Phe Glu Thr Arg Asn
355 360 365

Phe Trp Ile Gly Leu Thr Tyr Lys Thr Ala Lys Asp Ser Phe Arg Trp
370 375 380

Ala Thr Gly Glu His Gln Ala Phe Thr Ser Phe Ala Phe Gly Gln Pro
385 390 395 400

Asp Asn His Gly Phe Gly Asn Cys Val Glu Leu Gln Ala Ser Ala Ala
405 410 415

Phe Asn Trp Asn Asn Gln Arg Cys Lys Thr Arg Asn Arg Tyr Ile Cys
420 425 430

Gln Phe Ala Gln Glu His Ile Ser Arg Trp Gly Pro Gly Ser
435 440 445

<210> 48

<211> 834

<212> PRT

<213> Homo sapiens

<400> 48

Met Lys His Thr Leu Ala Leu Leu Ala Pro Leu Leu Gly Leu Gly Leu
1 5 10 15

Gly Leu Ala Leu Ser Gln Leu Ala Ala Gly Ala Thr Asp Cys Lys Phe
20 25 30

Leu Gly Pro Ala Glu His Leu Thr Phe Thr Pro Ala Ala Arg Ala Arg
35 40 45

Trp Leu Ala Pro Arg Val Arg Ala Pro Gly Leu Leu Asp Ser Leu Tyr
50 55 60

20444-0440

Gly Thr Val Arg Arg Phe Leu Ser Val Val Gln Leu Asn Pro Phe Pro
 65 70 75 80
 Ser Glu Leu Val Lys Ala Leu Leu Asn Glu Leu Ala Ser Val Lys Val
 85 90 95
 Asn Glu Val Val Arg Tyr Glu Ala Gly Tyr Val Val Cys Ala Val Ile
 100 105 110
 Ala Gly Leu Tyr Leu Leu Leu Val Pro Thr Ala Gly Leu Cys Phe Cys
 115 120 125
 Cys Cys Arg Cys His Arg Arg Cys Gly Gly Arg Val Lys Thr Glu His
 130 135 140
 Lys Ala Leu Ala Cys Glu Arg Ala Ala Leu Met Val Phe Leu Leu Leu
 145 150 155 160
 Thr Thr Leu Leu Leu Leu Ile Gly Val Val Cys Ala Phe Val Thr Asn
 165 170 175
 Gln Arg Thr His Glu Gln Met Gly Pro Ser Ile Glu Ala Met Pro Glu
 180 185 190
 Thr Leu Leu Ser Leu Trp Gly Leu Val Ser Asp Val Pro Gln Glu Leu
 195 200 205
 Gln Ala Val Ala Gln Gln Phe Ser Leu Pro Gln Glu Gln Val Ser Glu
 210 215 220
 Glu Leu Asp Gly Val Gly Val Ser Ile Gly Ser Ala Ile His Thr Gln
 225 230 235 240
 Leu Arg Ser Ser Val Tyr Pro Leu Leu Ala Ala Val Gly Ser Leu Gly
 245 250 255
 Gln Val Leu Gln Val Ser Val His His Leu Gln Thr Leu Asn Ala Thr
 260 265 270
 Val Val Glu Leu Gln Ala Gly Gln Gln Asp Leu Glu Pro Ala Ile Arg
 275 280 285
 Glu His Arg Asp Arg Leu Leu Glu Leu Leu Gln Glu Ala Arg Cys Gln
 290 295 300
 Gly Asp Cys Ala Gly Ala Leu Ser Trp Ala Arg Thr Leu Glu Leu Gly
 305 310 315 320
 Ala Asp Phe Ser Gln Val Pro Ser Val Asp His Val Leu His Gln Leu
 325 330 335
 Lys Gly Val Pro Glu Ala Asn Phe Ser Ser Met Val Gln Glu Glu Asn
 340 345 350
 Ser Thr Phe Asn Ala Leu Pro Ala Leu Ala Ala Met Gln Thr Ser Ser
 355 360 365

300444-04400
 200444-04400

Val Val Gln Glu Leu Lys Lys Ala Val Ala Gln Gln Pro Glu Gly Val
 370 375 380
 Arg Thr Leu Ala Glu Gly Phe Pro Gly Leu Glu Ala Ala Ser Arg Trp
 385 390 395 400
 Ala Gln Ala Leu Gln Glu Val Glu Glu Ser Ser Arg Pro Tyr Leu Gln
 405 410 415
 Glu Val Gln Arg Tyr Glu Thr Tyr Arg Trp Ile Val Gly Cys Val Leu
 420 425 430
 Cys Ser Val Val Leu Phe Val Val Leu Cys Asn Leu Leu Gly Leu Asn
 435 440 445
 Leu Gly Ile Trp Gly Leu Ser Ala Arg Asp Asp Pro Ser His Pro Glu
 450 455 460
 Ala Lys Gly Glu Ala Gly Ala Arg Phe Leu Met Ala Gly Val Gly Leu
 465 470 475 480
 Ser Phe Leu Phe Ala Ala Pro Leu Ile Leu Leu Val Phe Ala Thr Phe
 485 490 495
 Leu Val Gly Gly Asn Val Gln Thr Leu Val Cys Arg Ser Trp Glu Asn
 500 505 510
 Gly Glu Leu Phe Glu Phe Ala Asp Thr Pro Gly Asn Leu Pro Pro Ser
 515 520 525
 Met Asn Leu Ser Gln Leu Leu Gly Leu Arg Lys Asn Ile Ser Ile His
 530 535 540
 Gln Ala Tyr Gln Gln Cys Lys Glu Gly Ala Ala Leu Trp Thr Val Leu
 545 550 555 560
 Gln Leu Asn Asp Ser Tyr Asp Leu Glu Glu His Leu Asp Ile Asn Gln
 565 570 575
 Tyr Thr Asn Lys Leu Arg Gln Glu Leu Gln Ser Leu Lys Val Asp Thr
 580 585 590
 Gln Ser Leu Asp Leu Leu Ser Ser Ala Ala Arg Arg Asp Leu Glu Ala
 595 600 605
 Leu Gln Ser Ser Gly Leu Gln Arg Ile His Tyr Pro Asp Phe Leu Val
 610 615 620
 Gln Ile Gln Arg Pro Val Val Lys Thr Ser Met Glu Gln Leu Ala Gln
 625 630 635 640
 Glu Leu Gln Gly Leu Ala Gln Ala Gln Asp Asn Ser Val Leu Gly Gln
 645 650 655
 Arg Leu Gln Glu Glu Ala Gln Gly Leu Arg Asn Leu His Gln Glu Lys
 660 665 670
 Val Val Pro Gln Gln Ser Leu Val Ala Lys Leu Asn Leu Ser Val Arg

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675 680 685
 Ala Leu Glu Ser Ser Ala Pro Asn Leu Gln Leu Glu Thr Ser Asp Val
 690 695 700
 Leu Ala Asn Val Thr Tyr Leu Lys Gly Glu Leu Pro Ala Trp Ala Ala
 705 710 715 720
 Arg Ile Leu Arg Asn Val Ser Glu Cys Phe Leu Ala Arg Glu Met Gly
 725 730 735
 Tyr Phe Ser Gln Tyr Val Ala Trp Val Arg Glu Glu Val Thr Gln Arg
 740 745 750
 Ile Ala Thr Cys Gln Pro Leu Ser Gly Ala Leu Asp Asn Ser Arg Val
 755 760 765
 Ile Leu Cys Asp Met Met Ala Asp Pro Trp Asn Ala Phe Trp Phe Cys
 770 775 780
 Leu Ala Trp Cys Thr Phe Phe Leu Ile Pro Ser Ile Ile Phe Ala Val
 785 790 795 800
 Lys Thr Ser Lys Tyr Phe Arg Pro Ile Arg Lys Arg Leu Ser Ser Thr
 805 810 815
 Ser Ser Glu Glu Thr Gln Leu Phe His Ile Pro Arg Val Thr Ser Leu
 820 825 830
 Lys Leu

<210> 49
 <211> 103
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (60)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 49
 Met Glu Phe Cys Leu Ile Phe Leu Leu Leu Ile Leu Glu Phe Cys Gln
 1 5 10 15
 Ile Phe Asp Cys Leu Arg Lys Cys Tyr Tyr Arg Leu Thr Cys Leu Ser
 20 25 30
 Cys Leu Leu Leu Asn Leu Leu Ile Phe Phe Ser Glu Lys Val Val Ser
 35 40 45
 Glu Asn Pro Asn Ile Val Val Ile Gly Leu Ala Xaa Val Ile Met Leu
 50 55 60
 Ser Ile Met Phe Ile Lys Trp Leu Leu Ile Leu Leu Ile Phe Leu Leu
 65 70 75 80

Ser Phe Lys Asn Leu Gly Lys Glu Gln Glu Glu Arg Glu Asp Leu Leu
 85 90 95

Asn Ser Leu Leu Thr Thr Ser
 100

<210> 50

<211> 419

<212> PRT

<213> Homo sapiens

<400> 50

Met Lys Ala Leu Leu Leu Leu Val Leu Pro Trp Leu Ser Pro Ala Asn
 1 5 10 15

Tyr Ile Asp Asn Val Gly Asn Leu His Phe Leu Tyr Ser Glu Leu Cys
 20 25 30

Lys Gly Ala Ser His Tyr Gly Leu Thr Lys Asp Arg Lys Arg Arg Ser
 35 40 45

Gln Asp Gly Cys Pro Asp Gly Cys Ala Ser Leu Thr Ala Thr Ala Pro
 50 55 60

Ser Pro Glu Val Ser Ala Ala Ala Thr Ile Ser Leu Met Thr Asp Glu
 65 70 75 80

Pro Gly Leu Asp Asn Pro Ala Tyr Val Ser Ser Ala Glu Asp Gly Gln
 85 90 95

Pro Ala Ile Ser Pro Val Asp Ser Gly Arg Ser Asn Arg Thr Arg Ala
 100 105 110

Arg Pro Phe Glu Arg Ser Thr Ile Arg Ser Arg Ser Phe Lys Lys Ile
 115 120 125

Asn Arg Ala Leu Ser Val Leu Arg Arg Thr Lys Ser Gly Ser Ala Val
 130 135 140

Ala Asn His Ala Asp Gln Gly Arg Glu Asn Ser Glu Asn Thr Thr Ala
 145 150 155 160

Pro Glu Val Phe Pro Arg Leu Tyr His Leu Ile Pro Asp Gly Glu Ile
 165 170 175

Thr Ser Ile Lys Ile Asn Arg Val Asp Pro Ser Glu Ser Leu Ser Ile
 180 185 190

Arg Leu Val Gly Gly Ser Glu Thr Pro Leu Val His Ile Ile Ile Gln
 195 200 205

His Ile Tyr Arg Asp Gly Val Ile Ala Arg Asp Gly Arg Leu Leu Pro
 210 215 220

Gly Asp Ile Ile Leu Lys Val Asn Gly Met Asp Ile Ser Asn Val Pro
 225 230 235 240

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His Asn Tyr Ala Val Arg Leu Leu Arg Gln Pro Cys Gln Val Leu Trp
 245 250 255
 Leu Thr Val Met Arg Glu Gln Lys Phe Arg Ser Arg Asn Asn Gly Gln
 260 265 270
 Ala Pro Asp Ala Tyr Arg Pro Arg Asp Asp Ser Phe His Val Ile Leu
 275 280 285
 Asn Lys Ser Ser Pro Glu Glu Gln Leu Gly Ile Lys Leu Val Arg Lys
 290 295 300
 Val Asp Glu Pro Gly Val Phe Ile Phe Asn Val Leu Asp Gly Gly Val
 305 310 315 320
 Ala Tyr Arg His Gly Gln Leu Glu Glu Asn Asp Arg Val Leu Ala Ile
 325 330 335
 Asn Gly His Asp Leu Arg Tyr Gly Ser Pro Glu Ser Ala Ala His Leu
 340 345 350
 Ile Gln Ala Ser Glu Arg Arg Val His Leu Val Val Ser Arg Gln Val
 355 360 365
 Arg Gln Arg Ser Pro Asp Ile Phe Gln Glu Ala Gly Trp Asn Ser Asn
 370 375 380
 Gly Ser Trp Ser Pro Gly Pro Gly Glu Arg Ser Asn Thr Pro Lys Pro
 385 390 395 400
 Leu His Pro Thr Ile Thr Cys His Glu Lys Val Val Asn Ile Gln Lys
 405 410 415
 Arg Pro Arg

<210> 51
 <211> 468
 <212> PRT
 <213> Homo sapiens

<400> 51
 Met Gly Arg Gly Trp Gly Phe Leu Phe Gly Leu Leu Gly Ala Val Trp
 1 5 10 15
 Leu Leu Ser Ser Gly His Gly Glu Glu Gln Pro Pro Glu Thr Ala Ala
 20 25 30
 Gln Arg Cys Phe Cys Gln Val Ser Gly Tyr Leu Asp Asp Cys Thr Cys
 35 40 45
 Asp Val Glu Thr Ile Asp Arg Phe Asn Asn Tyr Arg Leu Phe Pro Arg
 50 55 60
 Leu Gln Lys Leu Leu Glu Ser Asp Tyr Phe Arg Tyr Tyr Lys Val Asn
 65 70 75 80

Leu Lys Arg Pro Cys Pro Phe Trp Asn Asp Ile Ser Gln Cys Gly Arg
 85 90 95
 Arg Asp Cys Ala Val Lys Pro Cys Gln Ser Asp Glu Val Pro Asp Gly
 100 105 110
 Ile Lys Ser Ala Ser Tyr Lys Tyr Ser Glu Glu Ala Asn Asn Leu Ile
 115 120 125
 Glu Glu Cys Glu Gln Ala Glu Arg Leu Gly Ala Val Asp Glu Ser Leu
 130 135 140
 Ser Glu Glu Thr Gln Lys Ala Val Leu Gln Trp Thr Lys His Asp Asp
 145 150 155 160
 Ser Ser Asp Asn Phe Cys Glu Ala Asp Asp Ile Gln Ser Pro Glu Ala
 165 170 175
 Glu Tyr Val Asp Leu Leu Leu Asn Pro Glu Arg Tyr Thr Gly Tyr Lys
 180 185 190
 Gly Pro Asp Ala Trp Lys Ile Trp Asn Val Ile Tyr Glu Glu Asn Cys
 195 200 205
 Phe Lys Pro Gln Thr Ile Lys Arg Pro Leu Asn Pro Leu Ala Ser Gly
 210 215 220
 Gln Gly Thr Ser Glu Glu Asn Thr Phe Tyr Ser Trp Leu Glu Gly Leu
 225 230 235 240
 Cys Val Glu Lys Arg Ala Phe Tyr Arg Leu Ile Ser Gly Leu His Ala
 245 250 255
 Ser Ile Asn Val His Leu Ser Ala Arg Tyr Leu Leu Gln Glu Thr Trp
 260 265 270
 Leu Glu Lys Lys Trp Gly His Asn Ile Thr Glu Phe Gln Gln Arg Phe
 275 280 285
 Asp Gly Ile Leu Thr Glu Gly Glu Gly Pro Arg Arg Leu Lys Asn Leu
 290 295 300
 Tyr Phe Leu Tyr Leu Ile Glu Leu Arg Ala Leu Ser Lys Val Leu Pro
 305 310 315 320
 Phe Phe Glu Arg Pro Asp Phe Gln Leu Phe Thr Gly Asn Lys Ile Gln
 325 330 335
 Asp Glu Glu Asn Lys Met Leu Leu Leu Glu Ile Leu His Glu Ile Lys
 340 345 350
 Ser Phe Pro Leu His Phe Asp Glu Asn Ser Phe Phe Ala Gly Asp Lys
 355 360 365
 Lys Glu Ala His Lys Leu Lys Glu Asp Phe Arg Leu His Phe Arg Asn
 370 375 380

10044401
 2044401

Leu Arg Asn Val Gln Gly Ile Leu Glu Val Ser Lys Ala Arg Asp Ile
165 170 175

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<210> 53
<211> 523
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (248)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (249)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 53
Met Leu Arg Asn Gly Asn Lys Tyr Leu Leu Met Leu Val Ser Ile Ile
 1             5             10             15
Met Leu Thr Ala Cys Ile Ser Gln Ser Arg Thr Ser Phe Ile Pro Pro
          20             25             30
Gln Asp Arg Glu Ser Leu Leu Ala Glu Gln Pro Trp Pro His Asn Gly
      35             40             45

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Phe Val Ala Ile Ser Trp His Asn Val Glu Asp Glu Ala Ala Asp Gln
 50 55 60
 Arg Phe Met Ser Val Arg Thr Ser Ala Leu Arg Glu Gln Phe Ala Trp
 65 70 75 80
 Leu Arg Glu Asn Gly Tyr Gln Pro Val Ser Ile Ala Gln Ile Arg Glu
 85 90 95
 Ala His Arg Gly Gly Lys Pro Leu Pro Glu Lys Ala Val Val Leu Thr
 100 105 110
 Phe Asp Asp Gly Tyr Gln Ser Phe Tyr Thr Arg Val Phe Pro Ile Leu
 115 120 125
 Gln Ala Phe Gln Trp Pro Ala Val Trp Ala Pro Val Gly Ser Trp Val
 130 135 140
 Asp Thr Pro Ala Asp Lys Gln Val Lys Phe Gly Asp Glu Leu Val Asp
 145 150 155 160
 Arg Glu Tyr Phe Ala Thr Trp Gln Gln Val Arg Glu Val Ala Arg Ser
 165 170 175
 Arg Leu Val Glu Leu Ala Ser His Thr Trp Asn Ser His Tyr Gly Ile
 180 185 190
 Gln Ala Asn Ala Thr Gly Ser Leu Leu Pro Val Tyr Val Asn Arg Ala
 195 200 205
 Tyr Phe Thr Asp His Ala Arg Tyr Glu Thr Ala Ala Glu Tyr Arg Glu
 210 215 220
 Arg Ile Arg Leu Asp Ala Val Lys Met Thr Glu Tyr Leu Arg Thr Lys
 225 230 235 240
 Val Glu Val Asn Pro His Val Xaa Xaa Trp Pro Tyr Gly Glu Ala Asn
 245 250 255
 Gly Ile Ala Ile Glu Glu Leu Lys Lys Leu Gly Tyr Asp Met Phe Phe
 260 265 270
 Thr Leu Glu Ser Gly Leu Ala Asn Ala Ser Gln Leu Asp Ser Ile Pro
 275 280 285
 Arg Val Leu Ile Ala Asn Asn Pro Ser Leu Lys Glu Phe Ala Gln Gln
 290 295 300
 Ile Ile Thr Val Gln Glu Lys Ser Pro Gln Arg Ile Met His Ile Asp
 305 310 315 320
 Leu Asp Tyr Val Tyr Asp Glu Asn Leu Gln Gln Met Asp Arg Asn Ile
 325 330 335
 Asp Val Leu Ile Gln Arg Val Lys Asp Met Gln Ile Ser Thr Val Tyr
 340 345 350

200
 210
 220
 230
 240
 250
 260
 270
 280
 290
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 310
 320
 330
 340
 350

Leu Gln Ala Phe Ala Asp Pro Asp Gly Asp Gly Leu Val Lys Glu Val
 355 360 365
 Trp Phe Pro Asn Arg Leu Leu Pro Met Lys Ala Asp Ile Phe Ser Arg
 370 375 380
 Val Ala Trp Gln Leu Arg Thr Arg Ser Gly Val Asn Ile Tyr Ala Trp
 385 390 395 400
 Met Pro Val Leu Ser Trp Asp Leu Asp Pro Thr Leu Thr Arg Val Lys
 405 410 415
 Tyr Leu Pro Thr Gly Glu Lys Lys Ala Gln Ile His Pro Glu Gln Tyr
 420 425 430
 His Arg Leu Ser Pro Phe Asp Asp Arg Val Arg Ala Gln Val Gly Met
 435 440 445
 Leu Tyr Glu Asp Leu Ala Gly His Ala Ala Phe Asp Gly Ile Leu Phe
 450 455 460
 His Asp Asp Ala Leu Leu Ser Asp Tyr Glu Asp Ala Ser Ala Pro Ala
 465 470 475 480
 Ile Thr Ala Tyr Gln Gln Ala Gly Phe Ser Gly Ser Leu Ser Glu Ile
 485 490 495
 Arg Gln Asn Pro Glu Gln Phe Lys Gln Trp Ala Arg Phe Lys Ser Arg
 500 505 510
 Ala Leu Thr Asp Phe Thr Leu Glu Leu Ser Ala
 515 520

<210> 54

<211> 220

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (170)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 54

Met Ala Thr Val Arg Ala Ser Leu Arg Gly Ala Leu Leu Leu Leu Leu
 1 5 10 15

Ala Val Ala Gly Val Ala Glu Val Ala Gly Gly Leu Ala Pro Gly Ser
 20 25 30

Ala Gly Ala Leu Cys Cys Asn His Ser Lys Asp Asn Gln Met Cys Arg
 35 40 45

Asp Val Cys Glu Gln Ile Phe Ser Ser Lys Ser Glu Ser Arg Leu Lys
 50 55 60

His Leu Leu Gln Arg Ala Pro Asp Tyr Cys Pro Glu Thr Met Val Glu

65					70					75					80				
Ile	Trp	Asn	Cys	Met	Asn	Ser	Ser	Leu	Pro	Gly	Val	Phe	Lys	Lys	Ser				
				85					90					95					
Asp	Gly	Trp	Val	Gly	Leu	Gly	Cys	Cys	Glu	Leu	Ala	Ile	Ala	Leu	Glu				
				100					105					110					
Cys	Arg	Gln	Ala	Cys	Lys	Gln	Ala	Ser	Ser	Lys	Asn	Asp	Ile	Ser	Lys				
				115					120					125					
Val	Cys	Arg	Lys	Glu	Tyr	Glu	Asn	Ala	Leu	Phe	Ser	Cys	Ile	Ser	Arg				
				130					135					140					
Asn	Glu	Met	Gly	Ser	Val	Cys	Cys	Ser	Tyr	Ala	Gly	His	His	Thr	Asn				
				145					150					155	160				
Cys	Arg	Glu	Tyr	Cys	Gln	Ala	Ile	Phe	Xaa	Thr	Asp	Ser	Ser	Pro	Gly				
				165					170					175					
Pro	Ser	Gln	Ile	Lys	Ala	Val	Glu	Asn	Tyr	Cys	Ala	Ser	Ile	Ser	Pro				
				180					185					190					
Gln	Leu	Ile	His	Cys	Val	Asn	Asn	Tyr	Thr	Gln	Ser	Tyr	Pro	Met	Arg				
				195					200					205					
Asn	Pro	Thr	Asp	Ser	Arg	Ser	Val	Leu	Ser	Asp	Ile								
				210					215					220					
<210> 55																			
<211> 93																			
<212> PRT																			
<213> Homo sapiens																			
<400> 55																			
Met	Gly	Ala	Ala	Leu	Leu	Trp	Glu	Val	Leu	Val	Gly	Gly	Thr	Arg	Ala				
1					5					10					15				
Leu	Thr	Asn	Leu	Leu	Leu	Leu	Gly	Gly	Thr	Ser	Pro	Gly	Arg	Thr	Ser				
				20					25					30					
Gln	Leu	Gln	Val	Leu	Arg	Leu	Pro	Val	Ala	Ala	Glu	Pro	Val	Pro	Leu				
				35					40					45					
Ala	Phe	Ser	Ser	His	Asn	Gly	Glu	Gly	Asp	Phe	Gly	Ile	Leu	Thr	Asn				
				50					55					60					
Ser	Ser	Leu	Gly	Leu	Ser	Leu	Leu	Pro	Ser	Thr	Ala	Ser	Arg	Phe	Ser				
				65					70					75	80				
Ser	Ile	Cys	Ala	Tyr	Tyr	Leu	Arg	Thr	Val	Ser	Ala	Pro							
				85					90										
<210> 56																			
<211> 79																			
<212> PRT																			

<400> 56

Lys Ser Asn Glu Ala Gly Cys Ile Tyr Gln Ser Ile Ile Leu Ile
65 70 75

<211> 74

<212> PRT

<213> Homo sapiens

<400> 57

Arg Trp Asn Leu Gly Pro Cys Gly Thr Val
65 70

<210> 58

<211> 446

<212> PRT

<213> Homo sapiens

<400> 58

Gly Val Leu Trp Trp Pro Tyr Ala Lys Gln Arg Arg Ser Pro Lys Glu
50 55 60

Thr 65	Val	Thr	Pro	Glu	Gln 70	Leu	Gln	Ile	Ala	Glu	Asp 75	Asn	Leu	Arg	Ala 80
Leu	Leu	Ile	Tyr	Ala 85	Ile	Ser	Ala	Thr	Val 90	Phe	Thr	Val	Ile	Leu 95	Phe 100
Leu	Ile	Met	Leu 100	Val	Met	Arg	Lys	Arg 105	Val	Ala	Leu	Thr	Ile 110	Ala	Leu 115
Phe	His	Val 115	Ala	Gly	Lys	Val	Phe 120	Ile	His	Leu	Pro	Leu 125	Leu	Val	Phe 130
Gln	Pro 130	Phe	Trp	Thr	Phe	Phe 135	Ala	Leu	Val	Leu	Phe 140	Trp	Val	Tyr	Trp 145
Ile 145	Met	Thr	Leu	Leu 150	Phe	Leu	Gly	Thr	Thr	Gly 155	Ser	Pro	Val	Gln	Asn 160
Glu	Gln	Gly	Phe 165	Val	Glu	Phe	Lys	Ile	Ser 170	Gly	Pro	Leu	Gln	Tyr 175	Met 180
Trp	Trp	Tyr	His 180	Val	Val	Gly	Leu	Ile 185	Trp	Ile	Ser	Glu	Phe 190	Ile	Leu 195
Ala	Cys	Gln 195	Gln	Met	Thr	Val	Ala 200	Gly	Ala	Val	Val 205	Thr	Tyr	Tyr	Phe 210
Thr	Arg 210	Asp	Lys	Arg	Asn	Leu 215	Pro	Phe	Thr	Pro	Ile 220	Leu	Ala	Ser	Val 225
Asn 225	Arg	Leu	Ile	Arg	Tyr 230	His	Leu	Gly	Thr	Val 235	Ala	Lys	Gly	Ser	Phe 240
Ile	Ile	Thr	Leu 245	Val	Lys	Ile	Pro	Arg	Met 250	Ile	Leu	Met	Tyr	Ile 255	His 260
Ser	Gln	Leu	Lys 260	Gly	Lys	Glu	Asn	Ala 265	Cys	Ala	Arg	Cys	Val	Leu	Lys 270
Ser	Cys	Ile 275	Cys	Cys	Leu	Trp	Cys 280	Leu	Glu	Lys	Cys 285	Leu	Asn	Tyr	Leu 290
Asn 290	Gln	Asn	Ala	Tyr	Thr	Ala 295	Thr	Ala	Ile	Asn	Ser 300	Thr	Asn	Phe	Cys 305
Thr 305	Ser	Ala	Lys	Asp	Ala 310	Phe	Val	Ile	Leu	Val 315	Glu	Asn	Ala	Leu	Arg 320
Val	Ala	Thr	Ile 325	Asn	Thr	Val	Gly	Asp	Phe 330	Met	Leu	Phe	Leu	Gly 335	Lys 340
Val	Leu	Ile 340	Val	Cys	Ser	Thr	Gly	Leu 345	Ala	Gly	Ile	Met	Leu 350	Leu	Asn 355
Tyr	Gln 355	Gln	Asp	Tyr	Thr	Val	Trp 360	Val	Leu	Pro	Leu	Ile 365	Ile	Val	Cys 370

Leu Phe Ala Phe Leu Asp Ala His Cys Phe Leu Ser Ile Tyr Glu Met
 370 375 380

Val Val Asp Val Leu Phe Leu Cys Phe Ala Ile Asp Thr Lys Tyr Asn
 385 390 395 400

Asp Gly Ser Pro Gly Arg Glu Phe Tyr Met Asp Lys Val Leu Met Glu
 405 410 415

Phe Val Glu Asn Ser Arg Lys Ala Met Lys Glu Ala Gly Lys Gly Gly
 420 425 430

Val Ala Asp Ser Arg Glu Leu Lys Pro Met Leu Lys Lys Arg
 435 440 445

<210> 59

<211> 58

<212> PRT

<213> Homo sapiens

<400> 59

Met Leu Phe Phe Tyr Leu Asn Tyr Leu Met Ile Ala Leu Leu Leu Leu
 1 5 10 15

Phe Lys Lys Ile Gln Lys Ser Asn Lys Gly Lys Asp Gly Asn Leu Met
 20 25 30

Ile Glu Gly Val Ala Cys Val Thr Val Gly Gly Lys Glu Tyr Ile Asp
 35 40 45

Phe Ala Leu Val Asp Ile Phe Met Leu Val
 50 55

<210> 60

<211> 941

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (807)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (809)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (815)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (819)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 60

Met Val Phe Leu Pro Leu Lys Trp Ser Leu Ala Thr Met Ser Phe Leu
1 5 10 15

Leu Ser Ser Leu Leu Ala Leu Leu Thr Val Ser Thr Pro Ser Trp Cys
20 25 30

Gln Ser Thr Glu Ala Ser Pro Lys Arg Ser Asp Gly Thr Pro Phe Pro
35 40 45

Trp Asn Lys Ile Arg Leu Pro Glu Tyr Val Ile Pro Val His Tyr Asp
50 55 60

Leu Leu Ile His Ala Asn Leu Thr Thr Leu Thr Phe Trp Gly Thr Thr
65 70 75 80

Lys Val Glu Ile Thr Ala Ser Gln Pro Thr Ser Thr Ile Ile Leu His
85 90 95

Ser His His Leu Gln Ile Ser Arg Ala Thr Leu Arg Lys Gly Ala Gly
100 105 110

Glu Arg Leu Ser Glu Glu Pro Leu Gln Val Leu Glu His Pro Pro Gln
115 120 125

Glu Gln Ile Ala Leu Leu Ala Pro Glu Pro Leu Leu Val Gly Leu Pro
130 135 140

Tyr Thr Val Val Ile His Tyr Ala Gly Asn Leu Ser Glu Thr Phe His
145 150 155 160

Gly Phe Tyr Lys Ser Thr Tyr Arg Thr Lys Glu Gly Glu Leu Arg Ile
165 170 175

Leu Ala Ser Thr Gln Phe Glu Pro Thr Ala Ala Arg Met Ala Phe Pro
180 185 190

Cys Phe Asp Glu Pro Ala Phe Lys Ala Ser Phe Ser Ile Lys Ile Arg
195 200 205

Arg Glu Pro Arg His Leu Ala Ile Ser Asn Met Pro Leu Val Lys Ser
210 215 220

Val Thr Val Ala Glu Gly Leu Ile Glu Asp His Phe Asp Val Thr Val
225 230 235 240

Lys Met Ser Thr Tyr Leu Val Ala Phe Ile Ile Ser Asp Phe Glu Ser
245 250 255

Val Ser Lys Ile Thr Lys Ser Gly Val Lys Val Ser Val Tyr Ala Val
260 265 270

Pro Asp Lys Met Asn Gln Ala Asp Tyr Ala Leu Asp Ala Ala Val Thr
275 280 285

Leu Leu Glu Phe Tyr Glu Asp Tyr Phe Ser Ile Pro Tyr Pro Leu Pro

2004007

290 295 300
 Lys Gln Asp Leu Ala Ala Ile Pro Asp Phe Gln Ser Gly Ala Met Glu
 305 310 315 320
 Asn Trp Gly Leu Thr Thr Tyr Arg Glu Ser Ala Leu Leu Phe Asp Ala
 325 330 335
 Glu Lys Ser Ser Ala Ser Ser Lys Leu Gly Ile Thr Met Thr Val Ala
 340 345 350
 His Glu Leu Ala His Gln Trp Phe Gly Asn Leu Val Thr Met Glu Trp
 355 360 365
 Trp Asn Asp Leu Trp Leu Asn Glu Gly Phe Ala Lys Phe Met Glu Phe
 370 375 380
 Val Ser Val Ser Val Thr His Pro Glu Leu Lys Val Gly Asp Tyr Phe
 385 390 395 400
 Phe Gly Lys Cys Phe Asp Ala Met Glu Val Asp Ala Leu Asn Ser Ser
 405 410 415
 His Pro Val Ser Thr Pro Val Glu Asn Pro Ala Gln Ile Arg Glu Met
 420 425 430
 Phe Asp Asp Val Ser Tyr Asp Lys Gly Ala Cys Ile Leu Asn Met Leu
 435 440 445
 Arg Glu Tyr Leu Ser Ala Asp Ala Phe Lys Ser Gly Ile Val Gln Tyr
 450 455 460
 Leu Gln Lys His Ser Tyr Lys Asn Thr Lys Asn Glu Asp Leu Trp Asp
 465 470 475 480
 Ser Met Ala Ser Ile Cys Pro Thr Asp Gly Val Lys Gly Met Asp Gly
 485 490 495
 Phe Cys Ser Arg Ser Gln His Ser Ser Ser Ser Ser His Trp His Gln
 500 505 510
 Glu Gly Val Asp Val Lys Thr Met Met Asn Thr Trp Thr Leu Gln Arg
 515 520 525
 Gly Phe Pro Leu Ile Thr Ile Thr Val Arg Gly Arg Asn Val His Met
 530 535 540
 Lys Gln Glu His Tyr Met Lys Gly Ser Asp Gly Ala Pro Asp Thr Gly
 545 550 555 560
 Tyr Leu Trp His Val Pro Leu Thr Phe Ile Thr Ser Lys Ser Asp Met
 565 570 575
 Val His Arg Phe Leu Leu Lys Thr Lys Thr Asp Val Leu Ile Leu Pro
 580 585 590
 Glu Glu Val Glu Trp Ile Lys Phe Asn Val Gly Met Asn Gly Tyr Tyr
 595 600 605

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Ile Val His Tyr Glu Asp Asp Gly Trp Asp Ser Leu Thr Gly Leu Leu
 610 615 620
 Lys Gly Thr His Thr Ala Val Ser Ser Asn Asp Arg Ala Ser Leu Ile
 625 630 635 640
 Asn Asn Ala Phe Gln Leu Val Ser Ile Gly Lys Leu Ser Ile Glu Lys
 645 650 655
 Ala Leu Asp Leu Ser Leu Tyr Leu Lys His Glu Thr Glu Ile Met Pro
 660 665 670
 Val Phe Gln Gly Leu Asn Glu Leu Ile Pro Met Tyr Lys Leu Met Glu
 675 680 685
 Lys Arg Asp Met Asn Glu Val Glu Thr Gln Phe Lys Ala Phe Leu Ile
 690 695 700
 Arg Leu Leu Arg Asp Leu Ile Asp Lys Gln Thr Trp Thr Asp Glu Gly
 705 710 715 720
 Ser Val Ser Glu Arg Met Leu Arg Ser Glu Leu Leu Leu Leu Ala Cys
 725 730 735
 Val His Asn Tyr Gln Pro Cys Val Gln Arg Ala Glu Gly Tyr Phe Arg
 740 745 750
 Lys Trp Lys Glu Ser Asn Gly Asn Leu Ser Leu Pro Val Asp Val Thr
 755 760 765
 Leu Ala Val Phe Ala Val Gly Ala Gln Ser Thr Glu Gly Trp Asp Phe
 770 775 780
 Leu Tyr Ser Lys Tyr Gln Phe Ser Leu Ser Ser Thr Glu Lys Ser Gln
 785 790 795 800
 Ile Glu Phe Ala Leu Cys Xaa Pro Xaa Asn Lys Glu Lys Leu Xaa Trp
 805 810 815
 Leu Leu Xaa Glu Ser Phe Lys Gly Asp Lys Ile Lys Thr Gln Glu Phe
 820 825 830
 Pro Gln Ile Leu Thr Leu Ile Gly Arg Asn Pro Val Gly Tyr Pro Leu
 835 840 845
 Ala Trp Gln Phe Leu Arg Lys Asn Trp Asn Lys Leu Val Gln Lys Phe
 850 855 860
 Glu Leu Gly Ser Ser Ser Ile Ala His Met Val Met Gly Thr Thr Asn
 865 870 875 880
 Gln Phe Ser Thr Arg Thr Arg Leu Glu Glu Val Lys Gly Phe Phe Ser
 885 890 895
 Ser Leu Lys Glu Asn Gly Ser Gln Leu Arg Cys Val Gln Gln Thr Ile
 900 905 910

100444-011102

Glu Thr Ile Glu Glu Asn Ile Gly Trp Met Asp Lys Asn Phe Asp Lys
 915 920 925

Ile Arg Val Trp Leu Gln Ser Glu Lys Leu Glu Arg Met
 930 935 940

<210> 61

<211> 549

<212> PRT

<213> Homo sapiens

<400> 61

Met Trp Leu Pro Leu Val Leu Leu Leu Ala Val Leu Leu Leu Ala Val
 1 5 10 15

Leu Cys Lys Val Tyr Leu Gly Leu Phe Ser Gly Ser Ser Pro Asn Pro
 20 25 30

Phe Ser Glu Asp Val Lys Arg Pro Pro Ala Pro Leu Val Thr Asp Lys
 35 40 45

Glu Ala Arg Lys Lys Val Leu Lys Gln Gly Ile His Tyr Ile Gly Arg
 50 55 60

Met Glu Glu Gly Ser Ile Gly Arg Phe Ile Leu Asp Gln Ile Thr Glu
 65 70 75 80

Gly Gln Leu Asp Trp Ala Pro Leu Ser Ser Pro Phe Asp Ile Met Val
 85 90 95

Leu Glu Gly Pro Asn Gly Arg Lys Glu Tyr Pro Met Tyr Ser Gly Glu
 100 105 110

Lys Ala Tyr Ile Gln Gly Leu Lys Glu Lys Phe Pro Gln Glu Glu Ala
 115 120 125

Ile Ile Asp Lys Tyr Ile Lys Leu Val Lys Val Val Ser Ser Gly Ala
 130 135 140

Pro His Ala Ile Leu Leu Lys Phe Leu Pro Leu Pro Val Val Gln Leu
 145 150 155 160

Leu Asp Arg Cys Gly Leu Leu Thr Arg Phe Ser Pro Phe Leu Gln Ala
 165 170 175

Ser Thr Gln Ser Leu Ala Glu Val Leu Gln Gln Leu Gly Ala Ser Ser
 180 185 190

Glu Leu Gln Ala Val Leu Ser Tyr Ile Phe Pro Thr Tyr Gly Val Thr
 195 200 205

Pro Asn His Ser Ala Phe Ser Met His Ala Leu Leu Val Asn His Tyr
 210 215 220

Met Lys Gly Gly Phe Tyr Pro Arg Gly Gly Ser Ser Glu Ile Ala Phe
 225 230 235 240

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His Thr Ile Pro Val Ile Gln Arg Ala Gly Gly Ala Val Leu Thr Lys
 245 250 255
 Ala Thr Val Gln Ser Val Leu Leu Asp Ser Ala Gly Lys Ala Cys Gly
 260 265 270
 Val Ser Val Lys Lys Gly His Glu Leu Val Asn Ile Tyr Cys Pro Ile
 275 280 285
 Val Val Ser Asn Ala Gly Leu Phe Asn Thr Tyr Glu His Leu Leu Pro
 290 295 300
 Gly Asn Ala Arg Cys Leu Pro Gly Val Lys Gln Gln Leu Gly Thr Val
 305 310 315 320
 Arg Pro Gly Leu Gly Met Thr Ser Val Phe Ile Cys Leu Arg Gly Thr
 325 330 335
 Lys Glu Asp Leu His Leu Pro Ser Thr Asn Tyr Tyr Val Tyr Tyr Asp
 340 345 350
 Thr Asp Met Asp Gln Ala Met Glu Arg Tyr Val Ser Met Pro Arg Glu
 355 360 365
 Glu Ala Ala Glu His Ile Pro Leu Leu Phe Phe Ala Phe Pro Ser Ala
 370 375 380
 Lys Asp Pro Thr Trp Glu Asp Arg Phe Pro Gly Arg Ser Thr Met Ile
 385 390 395 400
 Met Leu Ile Pro Thr Ala Tyr Glu Trp Phe Glu Glu Trp Gln Ala Glu
 405 410 415
 Leu Lys Gly Lys Arg Gly Ser Asp Tyr Glu Thr Phe Lys Asn Ser Phe
 420 425 430
 Val Glu Ala Ser Met Ser Val Val Leu Lys Leu Phe Pro Gln Leu Glu
 435 440 445
 Gly Lys Val Glu Ser Val Thr Ala Gly Ser Pro Leu Thr Asn Gln Phe
 450 455 460
 Tyr Leu Ala Ala Pro Arg Gly Ala Cys Tyr Gly Ala Asp His Asp Leu
 465 470 475 480
 Gly Arg Leu His Pro Cys Val Met Ala Ser Leu Arg Ala Gln Ser Pro
 485 490 495
 Ile Pro Asn Leu Tyr Leu Thr Gly Gln Asp Ile Phe Thr Cys Gly Leu
 500 505 510
 Val Gly Ala Leu Gln Gly Ala Leu Leu Cys Ser Ser Ala Ile Leu Lys
 515 520 525
 Arg Asn Leu Tyr Ser Asp Leu Lys Asn Leu Asp Ser Arg Ile Arg Ala
 530 535 540
 Gln Lys Lys Lys Asn

20071107 10:11:00
 20071107 10:11:00

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<210> 62
<211> 326
<212> PRT
<213> Homo sapiens
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Met 1	Arg	Thr	Glu	Ala 5	Gln	Val	Pro	Ala	Leu 10	Gln	Pro	Pro	Glu	Pro 15	Gly
Leu	Glu	Gly	Ala 20	Met	Gly	His	Arg	Thr 25	Leu	Val	Leu	Pro	Trp 30	Val	Leu
Leu	Thr 35	Leu	Cys	Val	Thr	Ala	Gly 40	Thr	Pro	Glu	Val	Trp 45	Val	Gln	Val
Arg	Met 50	Glu	Ala	Thr	Glu	Leu 55	Ser	Ser	Phe	Thr	Ile 60	Arg	Cys	Gly	Phe
Leu 65	Gly	Ser	Gly	Ser	Ile 70	Ser	Leu	Val	Thr	Val 75	Ser	Trp	Gly	Gly	Pro 80
Asp	Gly	Ala	Gly 85	Gly	Thr	Thr	Leu	Ala 90	Val	Leu	His	Pro	Glu	Arg 95	Gly
Ile	Arg	Gln 100	Trp	Ala	Pro	Ala	Arg	Gln 105	Ala	Arg	Trp	Glu	Thr 110	Gln	Ser
Ser	Ile 115	Ser	Leu	Ile	Leu	Glu	Gly 120	Ser	Gly	Ala	Ser	Ser 125	Pro	Cys	Ala
Asn 130	Thr	Thr	Phe	Cys	Cys	Lys 135	Phe	Ala	Ser	Phe	Pro 140	Glu	Gly	Ser	Trp
Glu 145	Ala	Cys	Gly	Ser	Leu 150	Pro	Pro	Ser	Ser	Asp 155	Pro	Gly	Leu	Ser	Ala 160
Pro	Pro	Thr	Pro 165	Ala	Pro	Ile	Leu	Arg	Ala 170	Asp	Leu	Ala	Gly	Ile 175	Leu
Gly	Val	Ser 180	Gly	Val	Leu	Leu	Phe	Gly 185	Cys	Val	Tyr	Leu	Leu 190	His	Leu
Leu	Arg 195	Arg	His	Lys	His	Arg	Pro 200	Ala	Pro	Arg	Leu	Gln 205	Pro	Ser	Arg
Thr 210	Ser	Pro	Gln	Ala	Pro	Arg 215	Ala	Arg	Ala	Trp	Ala 220	Pro	Ser	Gln	Ala
Ser 225	Gln	Ala	Ala	Leu	His 230	Val	Pro	Tyr	Ala	Thr 235	Ile	Asn	Thr	Ser	Cys 240
Arg	Pro	Ala	Thr 245	Leu	Asp	Thr	Ala	His	Pro 250	His	Gly	Gly	Pro	Ser 255	Trp
Trp	Ala	Ser	Leu	Pro	Thr	His	Ala	Ala	His	Arg	Pro	Gln	Gly	Pro	Ala

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<210> 63
<211> 267
<212> PRT
<213> Homo sapiens

<400> 63
Met Ala Pro Trp Ala Leu Leu Ser Pro Gly Val Leu Val Arg Thr Gly
  1              5              10              15
His Thr Val Leu Thr Trp Gly Ile Thr Leu Val Leu Phe Leu His Asp
          20              25              30
Thr Glu Leu Arg Gln Trp Glu Glu Gln Gly Glu Leu Leu Leu Pro Leu
          35              40              45
Thr Phe Leu Leu Leu Val Leu Gly Ser Leu Leu Leu Tyr Leu Ala Val
          50              55              60
Ser Leu Met Asp Pro Gly Tyr Val Asn Val Gln Pro Gln Pro Gln Glu
  65              70              75              80
Glu Leu Lys Glu Glu Gln Thr Ala Met Val Pro Pro Ala Ile Pro Leu
          85              90              95
Arg Arg Cys Arg Tyr Cys Leu Val Leu Gln Pro Leu Arg Ala Arg His
          100             105             110
Cys Arg Glu Cys Arg Arg Cys Val Arg Arg Tyr Asp His His Cys Pro
          115             120             125
Trp Met Glu Asn Cys Val Gly Glu Arg Asn His Pro Leu Phe Val Val
          130             135             140
Tyr Leu Ala Leu Gln Leu Val Val Leu Leu Trp Gly Leu Tyr Leu Ala
  145             150             155             160
Trp Ser Gly Leu Arg Phe Phe Gln Pro Trp Gly Leu Trp Leu Arg Ser
          165             170             175
Ser Gly Leu Leu Phe Ala Thr Phe Leu Leu Ser Leu Phe Ser Leu
          180             185             190
Val Ala Ser Leu Leu Leu Val Ser His Leu Tyr Leu Val Ala Ser Asn

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<210> 63
<211> 267
<212> PRT
<213> Homo sapiens
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<400> 63															
Met	Ala	Pro	Trp	Ala	Leu	Leu	Ser	Pro	Gly	Val	Leu	Val	Arg	Thr	Gly
1				5					10					15	
His	Thr	Val	Leu	Thr	Trp	Gly	Ile	Thr	Leu	Val	Leu	Phe	Leu	His	Asp
			20					25					30		
Thr	Glu	Leu	Arg	Gln	Trp	Glu	Glu	Gln	Gly	Glu	Leu	Leu	Leu	Pro	Leu
		35					40					45			
Thr	Phe	Leu	Leu	Leu	Val	Leu	Gly	Ser	Leu	Leu	Leu	Tyr	Leu	Ala	Val
	50					55					60				
Ser	Leu	Met	Asp	Pro	Gly	Tyr	Val	Asn	Val	Gln	Pro	Gln	Pro	Gln	Glu
65					70					75					80
Glu	Leu	Lys	Glu	Glu	Gln	Thr	Ala	Met	Val	Pro	Pro	Ala	Ile	Pro	Leu
				85					90					95	
Arg	Arg	Cys	Arg	Tyr	Cys	Leu	Val	Leu	Gln	Pro	Leu	Arg	Ala	Arg	His
			100					105					110		
Cys	Arg	Glu	Cys	Arg	Arg	Cys	Val	Arg	Arg	Tyr	Asp	His	His	Cys	Pro
		115					120					125			
Trp	Met	Glu	Asn	Cys	Val	Gly	Glu	Arg	Asn	His	Pro	Leu	Phe	Val	Val
	130					135					140				
Tyr	Leu	Ala	Leu	Gln	Leu	Val	Val	Leu	Leu	Trp	Gly	Leu	Tyr	Leu	Ala
145				150						155					160
Trp	Ser	Gly	Leu	Arg	Phe	Phe	Gln	Pro	Trp	Gly	Leu	Trp	Leu	Arg	Ser
				165					170					175	
Ser	Gly	Leu	Leu	Phe	Ala	Thr	Phe	Leu	Leu	Ser	Leu	Phe	Ser	Leu	
			180					185				190			
Val	Ala	Ser	Leu	Leu	Leu	Val	Ser	His	Leu	Tyr	Leu	Val	Ala	Ser	Asn

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<210> 64
<211> 62
<212> PRT
<213> Homo sapiens
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<210> 65
<211> 46
<212> PRT
<213> Homo sapiens
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<210> 66
<211> 84
<212> PRT
<213> Homo sapiens
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<400> 66
Met Tyr Leu Gly Arg Arg Trp Phe Phe Leu Tyr Leu Cys Pro Phe Pro
   1                   5             10              15
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Ser Ser Ala Leu Pro Thr Phe Cys Ala Leu Leu His Ala His Thr Ser
 20 25 30

Phe Cys Met Ile Asn Gly Leu Gly His Ala Ala His Ser Leu Ala Tyr
 35 40 45

Glu Thr Phe Thr Leu Ser Ala Glu Gly Ala Arg Asp Pro Pro Lys Ala
 50 55 60

Thr Glu Cys Ser Ile Cys Ser Leu Pro Ser Phe Cys Ile Pro Gly Phe
 65 70 75 80

Cys Ile Leu Phe

<210> 67
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 67
 Met Gly Leu Phe Pro Lys Leu Leu Ser Leu Ile Phe Gln Ile Val Tyr
 1 5 10 15

Phe Leu Pro Ser Ala Leu Glu Met Thr Val Ala Ser Pro Ser Cys His
 20 25 30

Phe Cys Asp Ala Leu Glu Ser Leu Phe Phe Ser Asn
 35 40

<210> 68
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 68
 Met Gln Thr Cys Gln Ala Ile Lys Gly Ser Cys Leu Ser Val Ser Leu
 1 5 10 15

Ile Leu Leu Cys Ala Ala Ser Thr Glu Gly Phe Arg Ala Pro Asp Leu
 20 25 30

Phe Cys Val Leu Arg Lys Ser Lys Cys Leu Ala Arg Thr Gln Pro Phe
 35 40 45

Phe Leu His Pro Glu Thr Ser
 50 55

<210> 69
 <211> 83
 <212> PRT
 <213> Homo sapiens

<220>

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<221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (63)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (64)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (78)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 69
 Met Gly His Phe Ala Pro Gly Val Phe His Leu Gly Ile Met Phe Thr
 1 5 10 15
 Gly Leu Ile Pro Val Val Val Cys Ser Ser Pro Ala Phe Leu Pro Val
 20 25 30
 Ala Glu Tyr Leu Ile His Cys Val Gly Ile His His Xaa Leu Val Asp
 35 40 45
 Gly Thr Phe Gly Val Val Phe His Leu Leu Val Met Met Gly Xaa Xaa
 50 55 60
 Pro Gln Gln Thr Phe Val Leu Gln Ser Phe Ala Val Ala Xaa Gly Arg
 65 70 75 80
 Phe Phe Leu

<210> 70
 <211> 434
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (381)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 70
 Met Ala Leu Thr Ala Pro Ser Leu Ser Leu Asp Ala Arg Gln Leu Trp
 1 5 10 15
 Asp Ser Pro Glu Thr Ala Pro Ala Ala Arg Thr Pro Gln Ser Pro Ala
 20 25 30
 Pro Cys Val Leu Leu Arg Ala Gln Arg Ser Leu Ala Pro Glu Pro Lys
 35 40 45

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Glu Pro Leu Ile Pro Ala Ser Pro Lys Ala Glu Pro Ile Trp Glu Leu
 50 55 60
 Pro Thr Arg Ala Pro Arg Leu Ser Ile Gly Asp Leu Asp Phe Ser Asp
 65 70 75 80
 Leu Gly Glu Asp Glu Asp Gln Asp Met Leu Asn Val Glu Ser Val Glu
 85 90 95
 Ala Gly Lys Asp Ile Pro Ala Pro Ser Pro Pro Leu Pro Leu Leu Ser
 100 105 110
 Gly Val Pro Pro Pro Pro Pro Leu Pro Pro Pro Pro Pro Ile Lys Gly
 115 120 125
 Pro Phe Pro Pro Pro Pro Pro Leu Pro Leu Ala Ala Pro Leu Pro His
 130 135 140
 Ser Val Pro Asp Ser Ser Ala Leu Pro Thr Lys Arg Lys Thr Val Lys
 145 150 155 160
 Leu Phe Trp Arg Glu Leu Lys Leu Ala Gly Gly His Gly Val Ser Ala
 165 170 175
 Ser Arg Phe Gly Pro Cys Ala Thr Leu Trp Ala Ser Leu Asp Pro Val
 180 185 190
 Ser Val Asp Thr Ala Arg Leu Glu His Leu Phe Glu Ser Arg Ala Lys
 195 200 205
 Glu Val Leu Pro Ser Lys Lys Ala Gly Glu Gly Arg Arg Thr Met Thr
 210 215 220
 Thr Val Leu Asp Pro Lys Arg Ser Asn Ala Ile Asn Ile Gly Leu Thr
 225 230 235 240
 Thr Leu Pro Pro Val His Val Ile Lys Ala Ala Leu Leu Asn Phe Asp
 245 250 255
 Glu Phe Ala Val Ser Lys Asp Gly Ile Glu Lys Leu Leu Thr Met Met
 260 265 270
 Pro Thr Glu Glu Glu Arg Gln Lys Ile Glu Glu Ala Gln Leu Ala Asn
 275 280 285
 Pro Asp Ile Pro Leu Gly Pro Ala Glu Asn Phe Leu Met Thr Leu Ala
 290 295 300
 Ser Ile Gly Gly Leu Ala Ala Arg Leu Gln Leu Trp Ala Phe Lys Leu
 305 310 315 320
 Asp Tyr Asp Ser Met Glu Arg Glu Ile Ala Glu Pro Leu Phe Asp Leu
 325 330 335
 Lys Val Gly Met Glu Gln Leu Val Gln Asn Ala Thr Phe Arg Cys Ile
 340 345 350

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Leu Ala Thr Leu Leu Ala Val Gly Asn Phe Leu Asn Gly Ser Gln Ser
 355 360 365
 Ser Gly Phe Glu Leu Ser Tyr Leu Glu Lys Val Ser Xaa Val Lys Asp
 370 375 380
 Thr Val Arg Arg Gln Ser Leu Leu His His Leu Cys Ser Leu Val Leu
 385 390 395 400
 Gln Thr Arg Pro Glu Ser Ser Asp Leu Tyr Ser Glu Ile Pro Ala Leu
 405 410 415
 Thr Arg Cys Ala Lys Val Ser Thr Cys Gln Asn Gln Pro Arg Pro Asp
 420 425 430

Lys Ala

<210> 71
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 71
 Met Gly Asn Gln Lys Leu Leu Leu Ser Leu Glu Val Leu Pro Gln Leu
 1 5 10 15
 Leu Leu Val Leu Ile Leu Met Pro Trp Phe Leu Leu Val Gly Lys Gly
 20 25 30
 His Ser Tyr His Ser Glu Glu Gln Glu Lys Ser
 35 40

<210> 72
 <211> 322
 <212> PRT
 <213> Homo sapiens

<400> 72
 Met Lys Tyr Ile Phe Ser Leu Leu Phe Phe Leu Leu Leu Glu Gly Gly
 1 5 10 15
 Lys Thr Glu Gln Val Lys His Ser Glu Thr Tyr Cys Met Phe Gln Asp
 20 25 30
 Lys Lys Tyr Arg Val Gly Glu Arg Trp His Pro Tyr Leu Glu Pro Tyr
 35 40 45
 Gly Leu Val Tyr Cys Val Asn Cys Ile Cys Ser Glu Asn Gly Asn Val
 50 55 60
 Leu Cys Ser Arg Val Arg Cys Pro Asn Val His Cys Leu Ser Pro Val
 65 70 75 80
 His Ile Pro His Leu Cys Cys Pro Arg Cys Pro Glu Asp Ser Leu Pro
 85 90 95

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Pro Val Asn Asn Lys Val Thr Ser Lys Ser Cys Glu Tyr Asn Gly Thr
100 105 110

Thr Tyr Gln His Gly Glu Leu Phe Val Ala Glu Gly Leu Phe Gln Asn
115 120 125

Arg Gln Pro Asn Gln Cys Thr Gln Cys Ser Cys Ser Glu Gly Asn Val
130 135 140

Tyr Cys Gly Leu Lys Thr Cys Pro Lys Leu Thr Cys Ala Phe Pro Val
145 150 155 160

Ser Val Pro Asp Ser Cys Cys Arg Val Cys Arg Gly Asp Gly Glu Leu
165 170 175

Ser Trp Glu His Ser Asp Gly Asp Ile Phe Arg Gln Pro Ala Asn Arg
180 185 190

Glu Ala Arg His Ser Tyr His His Ser His Tyr Asp Pro Pro Pro Ser
195 200 205

Arg Gln Ala Gly Gly Leu Ser Arg Phe Pro Gly Ala Arg Ser His Arg
210 215 220

Gly Ala Leu Met Asp Ser Gln Gln Ala Ser Gly Thr Ile Val Gln Ile
225 230 235 240

Val Ile Asn Asn Lys His Lys His Gly Gln Val Cys Val Ser Asn Gly
245 250 255

Lys Thr Tyr Ser His Gly Glu Ser Trp His Pro Asn Leu Arg Ala Phe
260 265 270

Gly Ile Val Glu Cys Val Leu Cys Thr Cys Asn Val Thr Lys Gln Glu
275 280 285

Cys Lys Lys Ile His Cys Pro Asn Arg Tyr Pro Cys Lys Tyr Pro Gln
290 295 300

Lys Ile Asp Gly Lys Cys Cys Lys Val Cys Pro Gly Lys Lys Lys Lys
305 310 315 320

Lys Lys

<210> 73

<211> 306

<212> PRT

<213> Homo sapiens

<400> 73

Met Lys Ala Leu Leu Leu Leu Val Leu Pro Trp Leu Ser Pro Ala Asn
1 5 10 15

Tyr Ile Asp Asn Val Gly Asn Leu His Phe Leu Tyr Ser Glu Leu Cys
20 25 30

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Lys Gly Ala Ser His Tyr Gly Leu Thr Lys Asp Arg Lys Arg Arg Ser
 35 40 45
 Gln Asp Gly Cys Pro Asp Gly Cys Ala Ser Leu Thr Ala Thr Ala Pro
 50 55 60
 Ser Pro Glu Val Ser Ala Ala Ala Thr Ile Ser Leu Met Thr Asp Glu
 65 70 75 80
 Pro Gly Leu Asp Asn Pro Ala Tyr Val Ser Ser Ala Glu Asp Gly Gln
 85 90 95
 Pro Ala Ile Ser Pro Val Asp Ser Gly Arg Ser Asn Arg Thr Arg Ala
 100 105 110
 Arg Pro Phe Glu Arg Ser Thr Ile Arg Ser Arg Ser Phe Lys Lys Ile
 115 120 125
 Asn Arg Ala Leu Ser Val Leu Arg Arg Thr Lys Ser Gly Ser Ala Val
 130 135 140
 Ala Asn His Ala Asp Gln Gly Arg Glu Asn Ser Glu Asn Thr Thr Ala
 145 150 155 160
 Pro Glu Val Phe Pro Arg Leu Tyr His Leu Ile Pro Asp Gly Glu Ile
 165 170 175
 Thr Ser Ile Lys Ile Asn Arg Val Asp Pro Ser Glu Ser Leu Ser Ile
 180 185 190
 Arg Leu Val Gly Gly Ser Glu Thr Pro Leu Val His Ile Ile Ile Gln
 195 200 205
 His Ile Tyr Arg Asp Gly Val Ile Ala Arg Asp Gly Arg Leu Leu Pro
 210 215 220
 Gly Asp Ile Ile Leu Lys Val Asn Gly Met Asp Ile Ser Asn Val Pro
 225 230 235 240
 His Asn Tyr Ala Val Arg Leu Leu Arg Gln Pro Cys Gln Val Leu Trp
 245 250 255
 Leu Thr Val Met Arg Glu Gln Lys Phe Arg Ser Arg Asn Asn Gly Gln
 260 265 270
 Ala Pro Asp Ala Tyr Arg Pro Arg Asp Asp Ser Phe His Val Ile Leu
 275 280 285
 Asn Lys Ser Arg Pro Arg Gly Ala Ala Trp Asn Lys Thr Gly Ala Gln
 290 295 300
 Gly Gly
 305

<210> 74

<211> 114

<212> PRT

<213> Homo sapiens

<400> 74

Met	Val	Thr	Arg	Ala	Gly	Ala	Gly	Thr	Ala	Val	Ala	Gly	Ala	Val	Val
1				5				10						15	
Val	Ala	Leu	Leu	Ser	Ala	Ala	Leu	Ala	Leu	Tyr	Gly	Pro	Pro	Leu	Asp
		20					25					30			
Ala	Val	Leu	Glu	Arg	Ala	Phe	Ser	Leu	Arg	Lys	Ala	His	Ser	Ile	Lys
		35					40					45			
Asp	Met	Glu	Asn	Thr	Leu	Gln	Leu	Val	Arg	Asn	Ile	Ile	Pro	Pro	Leu
	50					55					60				
Ser	Ser	Thr	Lys	His	Lys	Gly	Gln	Asp	Gly	Arg	Ile	Gly	Val	Val	Gly
	65				70					75					80
Gly	Cys	Gln	Glu	Tyr	Thr	Gly	Ala	Pro	Tyr	Phe	Ala	Glu	Ser	Gln	Leu
				85					90					95	
Ser	Lys	Trp	Ala	Gln	Thr	Cys	Pro	Thr	Cys	Ser	Val	Pro	Val	Arg	Pro
			100					105					110		

His Leu

<210> 75

<211> 114

<212> PRT

<213> Homo sapiens

<400> 75

Met	Val	Thr	Arg	Ala	Gly	Ala	Gly	Thr	Ala	Val	Ala	Gly	Ala	Val	Val
1				5				10						15	
Val	Ala	Leu	Leu	Ser	Ala	Ala	Leu	Ala	Leu	Tyr	Gly	Pro	Pro	Leu	Asp
		20					25					30			
Ala	Val	Leu	Glu	Arg	Ala	Phe	Ser	Leu	Arg	Lys	Ala	His	Ser	Ile	Lys
		35					40					45			
Asp	Met	Glu	Asn	Thr	Leu	Gln	Leu	Val	Arg	Asn	Ile	Ile	Pro	Pro	Leu
	50					55					60				
Ser	Ser	Thr	Lys	His	Lys	Gly	Gln	Asp	Gly	Arg	Ile	Gly	Val	Val	Gly
	65				70					75					80
Gly	Cys	Gln	Glu	Tyr	Thr	Gly	Ala	Pro	Tyr	Phe	Ala	Glu	Ser	Gln	Leu
				85					90					95	
Ser	Lys	Trp	Ala	Gln	Thr	Cys	Pro	Thr	Cys	Ser	Val	Pro	Val	Arg	Pro
			100					105					110		

His Leu

<210> 76
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 76
 Met Tyr Ala Cys Val Cys Arg Val Leu Gln Pro Gly Cys Gly Arg Val
 1 5 10 15
 Leu Val Cys Ala Arg Val Pro Ala Trp Leu Trp Val Cys Val Cys Val
 20 25 30
 Cys Val Cys Val Cys Val Cys Val Leu Ala Ser Gly Ala Val Arg Pro
 35 40 45
 Leu Arg Val Gly Ala Leu Phe Ser Ala His Trp Lys Pro Ser Pro Phe
 50 55 60
 Ser Gln Met Pro Gly Arg Gly Gly Ala Ala Val Gly Thr His Leu Val
 65 70 75 80
 Leu Leu Ser Asp Leu
 85

<210> 77
 <211> 154
 <212> PRT
 <213> Homo sapiens

<400> 77
 Met Ala Thr Val Arg Ala Ser Leu Arg Gly Ala Leu Leu Leu Leu Leu
 1 5 10 15
 Ala Val Ala Gly Val Ala Glu Val Ala Gly Gly Leu Ala Pro Gly Ser
 20 25 30
 Ala Gly Ala Leu Cys Cys Asn His Ser Lys Asp Asn Gln Met Cys Arg
 35 40 45
 Asp Val Cys Glu Gln Ile Phe Ser Ser Lys Ser Glu Ser Arg Leu Lys
 50 55 60
 His Leu Leu Gln Arg Ala Pro Asp Tyr Cys Pro Glu Thr Met Val Glu
 65 70 75 80
 Ile Trp Asn Cys Met Asn Ser Ser Leu Pro Gly Val Phe Lys Lys Ser
 85 90 95
 Asp Gly Trp Val Gly Leu Gly Cys Cys Glu Leu Ala Ile Ala Leu Glu
 100 105 110
 Cys Arg Gln Ala Cys Lys Gln Ala Ser Ser Lys Asn Asp Ile Ser Lys
 115 120 125
 Val Cys Arg Lys Glu Tyr Glu Pro Val Leu Arg Tyr Phe Ser Val Leu

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<400> 79
Ala Val Val Pro Thr Trp Cys Ser Thr Val Leu Leu Thr Phe Val Pro
 1              5              10              15
Thr Ala Arg Leu Val Ala Gly Leu Glu Asp Val Gln Val Tyr Asp Gly
              20              25              30

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Glu Asp Ala Val Phe Ser Leu Asp Leu Ser Thr Ile Ile Gln Gly Thr
 35 40 45

Trp Phe Pro
 50

<210> 80
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 80
 Met Leu Phe Pro Leu Leu Ala Trp Pro His Leu Leu Ser Leu Trp Val
 1 5 10 15

Cys Leu Thr Ala Thr Ser Pro Ser Lys Pro Ser Ala Pro His Ser His
 20 25 30

Gln Met Asp Leu Cys Leu Leu His
 35 40

<210> 81
 <211> 36
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 81
 Arg Pro Arg Thr Arg Ala Pro Arg Gly Ala Arg Ser Ala Cys Thr Arg
 1 5 10 15

Gly Xaa Arg Arg Arg Pro Val Pro Ser Leu Lys Val Leu Ser Pro Phe
 20 25 30

Ala Val Val Gln
 35

<210> 82
 <211> 489
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 82
 Arg Pro Arg Thr Arg Ala Pro Arg Gly Ala Arg Ser Ala Cys Thr Arg
 1 5 10 15

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Gly	Xaa	Arg	Arg	Arg	Pro	Val	Pro	Ser	Leu	Lys	Val	Leu	Ser	Pro	Phe	
			20					25						30		
Ala	Val	Val	Gln	Met	Arg	Lys	Lys	Trp	Lys	Met	Gly	Gly	Met	Lys	Tyr	
		35					40					45				
Ile	Phe	Ser	Leu	Leu	Phe	Phe	Leu	Leu	Leu	Glu	Gly	Gly	Lys	Thr	Glu	
	50					55					60					
Gln	Val	Lys	His	Ser	Glu	Thr	Tyr	Cys	Met	Phe	Gln	Asp	Lys	Lys	Tyr	
65					70					75					80	
Arg	Val	Gly	Glu	Arg	Trp	His	Pro	Tyr	Leu	Glu	Pro	Tyr	Gly	Leu	Val	
				85					90					95		
Tyr	Cys	Val	Asn	Cys	Ile	Cys	Ser	Glu	Asn	Gly	Asn	Val	Leu	Cys	Ser	
			100					105					110			
Arg	Val	Arg	Cys	Pro	Asn	Val	His	Cys	Leu	Ser	Pro	Val	His	Ile	Pro	
		115					120					125				
His	Leu	Cys	Cys	Pro	Arg	Cys	Pro	Glu	Asp	Ser	Leu	Pro	Pro	Val	Asn	
	130					135					140					
Asn	Lys	Val	Thr	Ser	Lys	Ser	Cys	Glu	Tyr	Asn	Gly	Thr	Thr	Tyr	Gln	
145					150					155					160	
His	Gly	Glu	Leu	Phe	Val	Ala	Glu	Gly	Leu	Phe	Gln	Asn	Arg	Gln	Pro	
				165					170					175		
Asn	Gln	Cys	Thr	Gln	Cys	Ser	Cys	Ser	Glu	Gly	Asn	Val	Tyr	Cys	Gly	
			180					185					190			
Leu	Lys	Thr	Cys	Pro	Lys	Leu	Thr	Cys	Ala	Phe	Pro	Val	Ser	Val	Pro	
		195					200					205				
Asp	Ser	Cys	Cys	Arg	Val	Cys	Arg	Gly	Asp	Gly	Glu	Leu	Ser	Trp	Glu	
	210					215					220					
His	Ser	Asp	Gly	Asp	Ile	Phe	Arg	Gln	Pro	Ala	Asn	Arg	Glu	Ala	Arg	
225					230					235					240	
His	Ser	Tyr	His	Arg	Ser	His	Tyr	Asp	Pro	Pro	Pro	Ser	Arg	Gln	Ala	
				245				250						255		
Gly	Gly	Leu	Ser	Arg	Phe	Pro	Gly	Ala	Arg	Ser	His	Arg	Gly	Ala	Leu	
			260					265					270			
Met	Asp	Ser	Gln	Gln	Ala	Ser	Gly	Thr	Ile	Val	Gln	Ile	Val	Ile	Asn	
		275					280					285				
Asn	Lys	His	Lys	His	Gly	Gln	Val	Cys	Val	Ser	Asn	Gly	Lys	Thr	Tyr	
	290					295					300					
Ser	His	Gly	Glu	Ser	Trp	His	Pro	Asn	Leu	Arg	Ala	Phe	Gly	Ile	Val	
305					310					315					320	
Glu	Cys	Val	Leu	Cys	Thr	Cys	Asn	Val	Thr	Lys	Gln	Glu	Cys	Lys	Lys	

330

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<210> 83
<211> 20
<212> PRT
<213> Homo sapiens
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<400> 83
Glu Thr Ser Arg Val Ala Glu Pro Gly Cys Ala Arg Ser Pro Asp Gly
1 5 10 15

Pro Asn Arg Pro
20

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<210> 84
<211> 83
<212> PRT
<213> Homo sapiens
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<400> 84
Gln Leu Ala Ala Gly Ala Thr Asp Cys Lys Phe Leu Gly Pro Ala Glu
1 5 10 15

His Leu Thr Phe Thr Pro Ala Ala Arg Ala Arg Trp Leu Ala Pro Arg
20 25 30

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<210> 85
<211> 257
<212> PRT
<213> Homo sapiens
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<400> 85															
Val	Cys	Ala	Phe	Val	Thr	Asn	Gln	Arg	Thr	His	Glu	Gln	Met	Gly	Pro
1				5					10					15	
Ser	Ile	Glu	Ala	Met	Pro	Glu	Thr	Leu	Leu	Ser	Leu	Trp	Gly	Leu	Val
			20					25					30		
Ser	Asp	Val	Pro	Gln	Glu	Leu	Gln	Ala	Val	Ala	Gln	Gln	Phe	Ser	Leu
		35					40					45			
Pro	Gln	Glu	Gln	Val	Ser	Glu	Glu	Leu	Asp	Gly	Val	Gly	Val	Ser	Ile
	50					55					60				
Gly	Ser	Ala	Ile	His	Thr	Gln	Leu	Arg	Ser	Ser	Val	Tyr	Pro	Leu	Leu
65					70					75					80
Ala	Ala	Val	Gly	Ser	Leu	Gly	Gln	Val	Leu	Gln	Val	Ser	Val	His	His
				85					90					95	
Leu	Gln	Thr	Leu	Asn	Ala	Thr	Val	Val	Glu	Leu	Gln	Ala	Gly	Gln	Gln
			100					105					110		
Asp	Leu	Glu	Pro	Ala	Ile	Arg	Glu	His	Arg	Asp	Arg	Leu	Leu	Glu	Leu
		115					120					125			
Leu	Gln	Glu	Ala	Arg	Cys	Gln	Gly	Asp	Cys	Ala	Gly	Ala	Leu	Ser	Trp
	130					135					140				
Ala	Arg	Thr	Leu	Glu	Leu	Gly	Ala	Asp	Phe	Ser	Gln	Val	Pro	Ser	Val
145					150					155					160
Asp	His	Val	Leu	His	Gln	Leu	Lys	Gly	Val	Pro	Glu	Ala	Asn	Phe	Ser
				165					170					175	
Ser	Met	Val	Gln	Glu	Glu	Asn	Ser	Thr	Phe	Asn	Ala	Leu	Pro	Ala	Leu
			180					185					190		
Ala	Ala	Met	Gln	Thr	Ser	Ser	Val	Val	Gln	Glu	Leu	Lys	Lys	Ala	Val
		195					200					205			

Ala Gln Gln Pro Glu Gly Val Arg Thr Leu Ala Glu Gly Phe Pro Gly
210 215 220

Leu Glu Ala Ala Ser Arg Trp Ala Gln Ala Leu Gln Glu Val Glu Glu
225 230 235 240

Ser Ser Arg Pro Tyr Leu Gln Glu Val Gln Arg Tyr Glu Thr Tyr Arg
245 250 255

Trp

<210> 86

<211> 287

<212> PRT

<213> Homo sapiens

<400> 86

Val Gly Gly Asn Val Gln Thr Leu Val Cys Arg Ser Trp Glu Asn Gly
1 5 10 15

Glu Leu Phe Glu Phe Ala Asp Thr Pro Gly Asn Leu Pro Pro Ser Met
20 25 30

Asn Leu Ser Gln Leu Leu Gly Leu Arg Lys Asn Ile Ser Ile His Gln
35 40 45

Ala Tyr Gln Gln Cys Lys Glu Gly Ala Ala Leu Trp Thr Val Leu Gln
50 55 60

Leu Asn Asp Ser Tyr Asp Leu Glu Glu His Leu Asp Ile Asn Gln Tyr
65 70 75 80

Thr Asn Lys Leu Arg Gln Glu Leu Gln Ser Leu Lys Val Asp Thr Gln
85 90 95

Ser Leu Asp Leu Leu Ser Ser Ala Ala Arg Arg Asp Leu Glu Ala Leu
100 105 110

Gln Ser Ser Gly Leu Gln Arg Ile His Tyr Pro Asp Phe Leu Val Gln
115 120 125

Ile Gln Arg Pro Val Val Lys Thr Ser Met Glu Gln Leu Ala Gln Glu
130 135 140

Leu Gln Gly Leu Ala Gln Ala Gln Asp Asn Ser Val Leu Gly Gln Arg
145 150 155 160

Leu Gln Glu Glu Ala Gln Gly Leu Arg Asn Leu His Gln Glu Lys Val
165 170 175

Val Pro Gln Gln Ser Leu Val Ala Lys Leu Asn Leu Ser Val Arg Ala
180 185 190

Leu Glu Ser Ser Ala Pro Asn Leu Gln Leu Glu Thr Ser Asp Val Leu
195 200 205

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Ala Asn Val Thr Tyr Leu Lys Gly Glu Leu Pro Ala Trp Ala Ala Arg
 210 215 220

Ile Leu Arg Asn Val Ser Glu Cys Phe Leu Ala Arg Glu Met Gly Tyr
 225 230 235 240

Phe Ser Gln Tyr Val Ala Trp Val Arg Glu Glu Val Thr Gln Arg Ile
 245 250 255

Ala Thr Cys Gln Pro Leu Ser Gly Ala Leu Asp Asn Ser Arg Val Ile
 260 265 270

Leu Cys Asp Met Met Ala Asp Pro Trp Asn Ala Phe Trp Phe Cys
 275 280 285

<210> 87
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 87
 Lys Gln Leu His Phe Lys Met Gln Met Thr Val Gly Glu Lys Glu Tyr
 1 5 10 15

Pro Val Cys Cys Gln Leu Ile Leu Phe Ser Leu Cys Cys Phe Ile Trp
 20 25 30

Glu Glu Leu Phe Leu Tyr Ile Lys
 35 40

<210> 88
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 88
 Ile Ser Lys Lys Asp Pro Gly Glu Ser Leu Gly Met Thr Val Ala Gly
 1 5 10 15

Gly Ala Ser His Arg Glu Trp Asp Leu Pro Ile Tyr Val Ile Ser Val
 20 25 30

Glu Pro Gly Gly Val Ile Ser Arg Asp Gly Arg Ile Lys Thr Gly Asp
 35 40 45

Ile Leu Leu Asn Val Asp Gly Val Arg Thr Asp Arg Gly Gln Pro Gly
 50 55 60

Val Arg Gln Trp His Tyr
 65 70

<210> 89
 <211> 38
 <212> PRT
 <213> Homo sapiens

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<400> 89

Ile Ser Lys Lys Asp Pro Gly Glu Ser Leu Gly Met Thr Val Ala Gly
 1 5 10 15

Gly Ala Ser His Arg Glu Trp Asp Leu Pro Ile Tyr Val Ile Ser Val
 20 25 30

Glu Pro Gly Gly Val Ile
 35

<210> 90

<211> 32

<212> PRT

<213> Homo sapiens

<400> 90

Ser Arg Asp Gly Arg Ile Lys Thr Gly Asp Ile Leu Leu Asn Val Asp
 1 5 10 15

Gly Val Arg Thr Asp Arg Gly Gln Pro Gly Val Arg Gln Trp His Tyr
 20 25 30

<210> 91

<211> 122

<212> PRT

<213> Homo sapiens

<400> 91

Phe Ser Thr Lys Val Gly Pro Glu Glu Gln Leu Gly Ile Lys Leu Val
 1 5 10 15

Arg Lys Val Asp Glu Pro Gly Val Phe Ile Phe Asn Val Leu Asp Gly
 20 25 30

Gly Val Ala Tyr Arg His Gly Gln Leu Glu Glu Asn Asp Arg Val Leu
 35 40 45

Ala Ile Asn Gly His Asp Leu Arg Tyr Gly Ser Pro Glu Ser Ala Ala
 50 55 60

His Leu Ile Gln Ala Ser Glu Arg Arg Val His Leu Val Val Ser Arg
 65 70 75 80

Gln Val Arg Gln Arg Ser Pro Asp Ile Phe Gln Glu Ala Ala Leu Glu
 85 90 95

Gln Gln Trp Gln Leu Val Pro Arg Ala Arg Gly Glu Glu Gln His Ser
 100 105 110

Gln Ala Pro Pro Ser Tyr Asn Tyr Leu Ser
 115 120

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<210> 92
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 92
 Phe Ser Thr Lys Val Gly Pro Glu Glu Gln Leu Gly Ile Lys Leu Val
 1 5 10 15
 Arg Lys Val Asp Glu Pro Gly Val Phe Ile Phe Asn Val Leu Asp Gly
 20 25 30
 Gly Val Ala Tyr Arg His Gly Gln Leu
 35 40

<210> 93
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 93
 Glu Glu Asn Asp Arg Val Leu Ala Ile Asn Gly His Asp Leu Arg Tyr
 1 5 10 15
 Gly Ser Pro Glu Ser Ala Ala His Leu Ile Gln Ala Ser Glu Arg Arg
 20 25 30
 Val His Leu Val Val Ser Arg Gln Val
 35 40

<210> 94
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 94
 Arg Gln Arg Ser Pro Asp Ile Phe Gln Glu Ala Ala Leu Glu Gln Gln
 1 5 10 15
 Trp Gln Leu Val Pro Arg Ala Arg Gly Glu Glu Gln His Ser Gln Ala
 20 25 30
 Pro Pro Ser Tyr Asn Tyr Leu Ser
 35 40

<210> 95
 <211> 162
 <212> PRT
 <213> Homo sapiens

<400> 95
 Gln Arg Ser Ala Arg Ser Glu Ala Val Ala Leu Leu Lys Arg Thr Ser
 1 5 10 15

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Ser Ser Ile Val Leu Lys Ala Leu Glu Val Lys Glu Tyr Glu Pro Gln
 20 25 30

Glu Asp Cys Ser Ser Pro Ala Ala Leu Asp Ser Asn His Asn Met Ala
 35 40 45

Pro Pro Ser Asp Trp Ser Pro Ser Trp Val Met Trp Leu Glu Leu Pro
 50 55 60

Arg Cys Leu Tyr Asn Cys Lys Asp Ile Val Leu Arg Arg Asn Thr Ala
 65 70 75 80

Gly Ser Leu Gly Phe Cys Ile Val Gly Gly Tyr Glu Glu Tyr Asn Gly
 85 90 95

Asn Lys Pro Phe Phe Ile Lys Ser Ile Val Glu Gly Thr Pro Ala Tyr
 100 105 110

Asn Asp Gly Arg Ile Arg Cys Gly Asp Ile Leu Leu Ala Val Asn Gly
 115 120 125

Arg Ser Thr Ser Gly Met Ile His Ala Cys Leu Ala Arg Leu Leu Lys
 130 135 140

Glu Leu Lys Gly Arg Ile Thr Leu Thr Ile Val Ser Trp Pro Gly Thr
 145 150 155 160

Phe Leu

<210> 96

<211> 36

<212> PRT

<213> Homo sapiens

<400> 96

Gln Arg Ser Ala Arg Ser Glu Ala Val Ala Leu Leu Lys Arg Thr Ser
 1 5 10 15

Ser Ser Ile Val Leu Lys Ala Leu Glu Val Lys Glu Tyr Glu Pro Gln
 20 25 30

Glu Asp Cys Ser
 35

<210> 97

<211> 41

<212> PRT

<213> Homo sapiens

<400> 97

Ser Pro Ala Ala Leu Asp Ser Asn His Asn Met Ala Pro Pro Ser Asp
 1 5 10 15

Trp Ser Pro Ser Trp Val Met Trp Leu Glu Leu Pro Arg Cys Leu Tyr
 20 25 30

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Asn Cys Lys Asp Ile Val Leu Arg Arg
 35 40

<210> 98
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 98
 Asn Thr Ala Gly Ser Leu Gly Phe Cys Ile Val Gly Gly Tyr Glu Glu
 1 5 10 15

Tyr Asn Gly Asn Lys Pro Phe Phe Ile Lys Ser Ile Val Glu Gly Thr
 20 25 30

Pro Ala Tyr Asn Asp Gly Arg Ile Arg Cys Gly
 35 40

<210> 99
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 99
 Asp Ile Leu Leu Ala Val Asn Gly Arg Ser Thr Ser Gly Met Ile His
 1 5 10 15

Ala Cys Leu Ala Arg Leu Leu Lys Glu Leu Lys Gly Arg Ile Thr Leu
 20 25 30

Thr Ile Val Ser Trp Pro Gly Thr Phe Leu
 35 40

<210> 100
 <211> 209
 <212> PRT
 <213> Homo sapiens

<400> 100
 Met Thr Val Ala Gly Gly Ala Ser His Arg Glu Trp Asp Leu Pro Ile
 1 5 10 15

Tyr Val Ile Ser Val Glu Pro Gly Gly Val Ile Ser Arg Asp Gly Arg
 20 25 30

Ile Lys Thr Gly Asp Ile Leu Leu Asn Val Asp Gly Val Glu Leu Thr
 35 40 45

Glu Val Ser Arg Ser Glu Ala Val Ala Leu Leu Lys Arg Thr Ser Ser
 50 55 60

Ser Ile Val Leu Lys Ala Leu Glu Val Lys Glu Tyr Glu Pro Gln Glu
 65 70 75 80

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Asp Cys Ser Ser Pro Ala Ala Leu Asp Ser Asn His Asn Met Ala Pro
85 95

Pro Ser Asp Trp Ser Pro Ser Trp Val Met Trp Leu Glu Leu Pro Arg
100 105 110

Cys Leu Tyr Asn Cys Lys Asp Ile Val Leu Arg Arg Asn Thr Ala Gly
115 120 125

Ser Leu Gly Phe Cys Ile Val Gly Gly Tyr Glu Glu Tyr Asn Gly Asn
130 135 140

Lys Pro Phe Phe Ile Lys Ser Ile Val Glu Gly Thr Pro Ala Tyr Asn
145 150 155 160

Asp Gly Arg Ile Arg Cys Gly Asp Ile Leu Leu Ala Val Asn Gly Arg
165 170 175

Ser Thr Ser Gly Met Ile His Ala Cys Leu Ala Arg Leu Leu Lys Glu
180 185 190

Leu Lys Gly Arg Ile Thr Leu Thr Ile Val Ser Trp Pro Gly Thr Phe
195 200 205

Leu

<210> 101

<211> 242

<212> PRT

<213> Homo sapiens

<400> 101

Met Ala Thr Ser Thr Ile Thr Ser Arg Arg Leu Met Ser Gly Phe Leu
1 5 10 15

Phe Leu Pro Val Ser Ser Phe Ser Met Ser Phe Phe Phe Phe Ser Thr
20 25 30

Cys Ser Val Thr Leu Ile Thr Ser Phe Cys Ile Phe Pro Val Ser Val
35 40 45

Ser Phe Phe Ile Ala Val Glu Asn Thr Trp Cys Arg Thr Val Ile Thr
50 55 60

Leu Pro Leu Ser Leu Ser Gly Ala Phe Ser Phe Ser Val Pro Ile Thr
65 70 75 80

Val Ser Leu Ser Val Ser Val Ser Leu Ser Ile Ser Val Phe Leu Ser
85 90 95

Ser Gly Ile Ile Val Pro Leu Leu Ala Gly Val His Lys Thr Arg Pro
100 105 110

Arg Arg Ser Arg Thr Arg Lys Met Gly Lys Gly Asn Ile Ala Ile Trp
115 120 125

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Lys Cys Thr Cys Arg Thr Thr Ile Ile Thr Arg Gly Met Ser Thr Phe
130 135 140

Tyr Cys Trp Tyr Lys Arg Trp Arg Trp Ser Ala Trp Trp Arg Arg Lys
145 150 155 160

Thr Arg Trp Trp Asn Gln Arg Trp Ser Ser Ala Asp Ser Arg Arg Arg
165 170 175

Trp Lys Lys Trp Arg Arg Trp Lys Val Ser Gly Arg Ser Ser Trp Arg
180 185 190

Glu Lys Arg Arg Trp Phe Ala Lys Ile Val Val Tyr Phe Ser Ser Arg
195 200 205

Ser Phe Arg Lys Asp Leu Tyr Val Ala Val Leu Ile Cys Pro Ser Pro
210 215 220

Ala Phe Tyr Ser Ala Asp Ser Tyr Ser Leu Thr Asp Asn Ile Asn Cys
225 230 235 240

Pro Arg

<210> 102

<211> 520

<212> PRT

<213> Homo sapiens

<400> 102

Met Ser Ala Gly Glu Val Glu Arg Leu Val Ser Glu Leu Ser Gly Gly
1 5 10 15

Thr Gly Gly Asp Glu Glu Glu Glu Trp Leu Tyr Gly Asp Glu Asn Glu
20 25 30

Val Glu Arg Pro Glu Glu Glu Asn Ala Ser Ala Asn Pro Pro Ser Gly
35 40 45

Ile Glu Asp Glu Thr Ala Glu Asn Gly Leu Pro Lys Pro Lys Val Thr
50 55 60

Glu Thr Glu Asp Asp Ser Asp Ser Asp Ser Asp Asp Asp Glu Asp Asp
65 70 75 80

Val His Val Thr Ile Gly Asp Ile Lys Thr Gly Ala Pro Gln Tyr Gly
85 90 95

Ser Tyr Gly Thr Ala Pro Val Asn Leu Asn Ile Lys Thr Gly Gly Arg
100 105 110

Val Tyr Gly Thr Thr Gly Thr Lys Val Lys Gly Val Asp Leu Asp Ala
115 120 125

Pro Gly Ser Ile Asn Gly Val Pro Leu Leu Glu Val Asp Leu Asp Ser
130 135 140

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Phe Glu Asp Lys Pro Trp Arg Lys Pro Gly Ala Asp Leu Ser Asp Tyr
 145 150 155 160
 Phe Asn Tyr Gly Phe Asn Glu Asp Thr Trp Lys Ala Tyr Cys Glu Lys
 165 170 175
 Gln Lys Arg Ile Arg Met Gly Leu Glu Val Ile Pro Val Thr Ser Thr
 180 185 190
 Thr Asn Lys Ile Thr Val Gln Gln Gly Arg Thr Gly Asn Ser Glu Lys
 195 200 205
 Glu Thr Ala Leu Pro Ser Thr Lys Ala Glu Phe Thr Ser Pro Pro Ser
 210 215 220
 Leu Phe Lys Thr Gly Leu Pro Pro Ser Arg Arg Leu Pro Gly Ala Ile
 225 230 235 240
 Asp Val Ile Gly Gln Thr Ile Thr Ile Ser Arg Val Glu Gly Arg Arg
 245 250 255
 Arg Ala Asn Glu Asn Ser Asn Ile Gln Val Leu Ser Glu Arg Ser Ala
 260 265 270
 Thr Glu Val Asp Asn Asn Phe Ser Lys Pro Pro Pro Phe Phe Pro Pro
 275 280 285
 Gly Ala Pro Pro Thr His Leu Pro Pro Pro Pro Phe Leu Pro Pro Pro
 290 295 300
 Pro Thr Val Ser Thr Ala Pro Pro Leu Ile Pro Pro Pro Gly Phe Pro
 305 310 315 320
 Pro Pro Pro Gly Ala Pro Pro Pro Ser Leu Ile Pro Thr Ile Glu Ser
 325 330 335
 Gly His Ser Ser Gly Tyr Asp Ser Arg Ser Ala Arg Ala Phe Pro Tyr
 340 345 350
 Gly Asn Val Ala Phe Pro His Leu Pro Gly Ser Ala Pro Ser Trp Pro
 355 360 365
 Ser Leu Val Asp Thr Ser Lys Gln Trp Asp Tyr Tyr Ala Arg Arg Glu
 370 375 380
 Lys Asp Arg Asp Arg Glu Arg Asp Arg Asp Arg Glu Arg Asp Arg Asp
 385 390 395 400
 Arg Asp Arg Glu Arg Glu Arg Thr Arg Glu Arg Glu Arg Glu Arg Asp
 405 410 415
 His Ser Pro Thr Pro Ser Val Phe Asn Ser Asp Glu Glu Arg Tyr Arg
 420 425 430
 Tyr Arg Glu Tyr Ala Glu Arg Gly Tyr Glu Arg His Arg Ala Ser Arg
 435 440 445
 Glu Lys Glu Glu Arg His Arg Glu Arg Arg His Arg Glu Lys Glu Glu

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<210> 103
<211> 205
<212> PRT
<213> Homo sapiens

<400> 103
Met Ile Val Val Leu His Val His Phe His Met Ala Met Leu Pro Phe
  1              5              10              15

Pro Ile Phe Leu Val Leu Leu Leu Arg Gly Leu Val Leu Trp Thr Pro
      20              25              30

Ala Ser Ser Gly Thr Ile Met Pro Glu Glu Arg Lys Thr Glu Ile Glu
      35              40              45

Arg Glu Thr Glu Thr Glu Ser Glu Thr Val Ile Gly Thr Glu Lys Glu
      50              55              60

Asn Ala Pro Glu Arg Glu Arg Gly Ser Val Ile Thr Val Leu His Gln
      65              70              75              80

Val Phe Ser Thr Ala Met Lys Asn Asp Thr Asp Thr Gly Asn Met Gln
      85              90              95

Lys Glu Val Met Ser Val Thr Glu Gln Val Glu Lys Lys Lys Asn Asp
      100             105             110

Ile Glu Lys Asp Asp Thr Gly Arg Lys Arg Lys Pro Asp Ile Ser Leu
      115             120             125

Leu Glu Val Ile Val Asp Val Ala Met Lys Val Lys Lys Glu Ile Val
      130             135             140

Thr Gly Asp Thr Asn Thr Lys Asn Leu Lys Glu Ala Lys Lys Glu Lys
      145             150             155             160

Lys Arg Ala Val Ser Leu Pro Leu Asn Arg Arg Ala Pro Lys Leu His
      165             170             175

Leu Gln Asn Arg His Gly Phe Gly Leu Leu Cys Ile Leu Val Pro Glu
      180             185             190

Val Asp Thr Ile Asn Leu Val Ile Phe Leu Asp Asn Ala

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205

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<400> 104
His Ala Ser Ala His Gly Pro Arg Pro Ser Val Arg Thr Gly Leu Pro
 1                    5                    10                    15
Ser Val Gly Arg Gln Ala Ala Gly Ala Ala
                20                25
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<210> 105
<211> 494
<212> PRT
<213> Homo sapiens

<400> 105
His Ala Ser Ala His Gly Pro Arg Pro Ser Val Arg Thr Gly Leu Pro
 1          5          10          15

Ser Val Gly Arg Gln Ala Ala Gly Ala Ala Met Gly Arg Gly Trp Gly
          20          25          30

Phe Leu Phe Gly Leu Leu Gly Ala Val Trp Leu Leu Ser Ser Gly His
          35          40          45

Gly Glu Glu Gln Pro Pro Glu Thr Ala Ala Gln Arg Cys Phe Cys Gln
 50          55          60

Val Ser Gly Tyr Leu Asp Asp Cys Thr Cys Asp Val Glu Thr Ile Asp
 65          70          75          80

Arg Phe Asn Asn Tyr Arg Leu Phe Pro Arg Leu Gln Lys Leu Leu Glu
          85          90          95

Ser Asp Tyr Phe Arg Tyr Tyr Lys Val Asn Leu Lys Arg Pro Cys Pro
          100          105          110

Phe Trp Asn Asp Ile Ser Gln Cys Gly Arg Arg Asp Cys Ala Val Lys
          115          120          125

Pro Cys Gln Ser Asp Glu Val Pro Asp Gly Ile Lys Ser Ala Ser Tyr
          130          135          140

Lys Tyr Ser Glu Glu Ala Asn Asn Leu Ile Glu Glu Cys Glu Gln Ala
          145          150          155          160

Glu Arg Leu Gly Ala Val Asp Glu Ser Leu Ser Glu Glu Thr Gln Lys
          165          170          175

Ala Val Leu Gln Trp Thr Lys His Asp Asp Ser Ser Asp Asn Phe Cys
          180          185          190

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Glu Ala Asp Asp Ile Gln Ser Pro Glu Ala Glu Tyr Val Asp Leu Leu
 195 200 205
 Leu Asn Pro Glu Arg Tyr Thr Gly Tyr Lys Gly Pro Asp Ala Trp Lys
 210 215 220
 Ile Trp Asn Val Ile Tyr Glu Glu Asn Cys Phe Lys Pro Gln Thr Ile
 225 230 235 240
 Lys Arg Pro Leu Asn Pro Leu Ala Ser Gly Gln Gly Thr Ser Glu Glu
 245 250 255
 Asn Thr Phe Tyr Ser Trp Leu Glu Gly Leu Cys Val Glu Lys Arg Ala
 260 265 270
 Phe Tyr Arg Leu Ile Ser Gly Leu His Ala Ser Ile Asn Val His Leu
 275 280 285
 Ser Ala Arg Tyr Leu Leu Gln Glu Thr Trp Leu Glu Lys Lys Trp Gly
 290 295 300
 His Asn Ile Thr Glu Phe Gln Gln Arg Phe Asp Gly Ile Leu Thr Glu
 305 310 315 320
 Gly Glu Gly Pro Arg Arg Leu Lys Asn Leu Tyr Phe Leu Tyr Leu Ile
 325 330 335
 Glu Leu Arg Ala Leu Ser Lys Val Leu Pro Phe Phe Glu Arg Pro Asp
 340 345 350
 Phe Gln Leu Phe Thr Gly Asn Lys Ile Gln Asp Glu Glu Asn Lys Met
 355 360 365
 Leu Leu Leu Glu Ile Leu His Glu Ile Lys Ser Phe Pro Leu His Phe
 370 375 380
 Asp Glu Asn Ser Phe Phe Ala Gly Asp Lys Lys Glu Ala His Lys Leu
 385 390 395 400
 Lys Glu Asp Phe Arg Leu His Phe Arg Asn Ile Ser Arg Ile Met Asp
 405 410 415
 Cys Val Gly Cys Phe Lys Cys Arg Leu Trp Gly Lys Leu Gln Thr Gln
 420 425 430
 Gly Leu Gly Thr Ala Leu Lys Ile Leu Phe Ser Glu Lys Leu Ile Ala
 435 440 445
 Asn Met Pro Glu Ser Gly Pro Ser Tyr Glu Phe His Leu Thr Arg Gln
 450 455 460
 Glu Ile Val Ser Leu Phe Asn Ala Phe Gly Arg Ile Ser Thr Ser Val
 465 470 475 480
 Lys Glu Leu Glu Asn Phe Arg Asn Leu Leu Gln Asn Ile His
 485 490

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<210> 106
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 106
 Cys Cys Arg Asn Ser Ala Arg Gly Gln Ser Gly Leu Ala Asp Glu Val
 1 5 10 15
 Arg Ser Ile Pro Phe Gly Pro Gly
 20

<210> 107
 <211> 289
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (144)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (246)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (252)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 107
 Ser Thr Phe Asp Lys Gly Tyr Gly Lys Tyr Phe Ala Ala Gly Glu Lys
 1 5 10 15
 Tyr His Thr Ser Ser Val Phe His Lys Ala Gln Arg Ala Arg Trp Lys
 20 25 30
 Asn Arg Arg Ser Trp Arg Leu Ser Gly Val His Trp Ser Pro Ile Phe
 35 40 45
 Cys Arg Ile Ser Ala Leu Lys Val Gly Ala Asp Leu Ser His Val Phe
 50 55 60
 Cys Ala Ser Ala Ala Ala Pro Val Ile Lys Ala Tyr Ser Pro Glu Leu
 65 70 75 80
 Ile Val His Pro Val Leu Asp Ser Pro Asn Ala Val His Glu Val Glu
 85 90 95
 Lys Trp Leu Pro Arg Leu His Ala Leu Val Val Gly Pro Gly Leu Gly
 100 105 110
 Arg Asp Asp Ala Leu Leu Arg Asn Val Gln Gly Ile Leu Glu Val Ser
 115 120 125

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Lys Ala Arg Asp Ile Pro Val Val Ile Asp Ala Asp Gly Leu Trp Xaa
 130 135 140

Val Ala Gln Gln Pro Ala Leu Ile His Gly Tyr Arg Lys Ala Val Leu
 145 150 155 160

Thr Pro Asn His Val Glu Phe Ser Arg Leu Tyr Asp Ala Val Leu Arg
 165 170 175

Gly Pro Met Asp Ser Asp Asp Ser His Gly Ser Val Leu Arg Leu Ser
 180 185 190

Gln Ala Leu Gly Asn Val Thr Val Val Gln Lys Gly Glu Arg Asp Ile
 195 200 205

Leu Ser Asn Gly Gln Gln Val Leu Val Cys Ser Gln Glu Gly Ser Ser
 210 215 220

Ala Gly Val Glu Gly Lys Gly Thr Ser Cys Arg Ala Pro Trp Ala Ser
 225 230 235 240

Trp Tyr Thr Gly Arg Xaa Leu Leu Asp His Arg Xaa Gln Met Gly Pro
 245 250 255

Ala Leu Ser Trp Trp Pro Arg Leu Ala Pro Ala Leu Ser Pro Gly Ser
 260 265 270

Ala Thr Thr Lys Pro Ser Arg Ser Thr Val Ala Pro Pro Pro Pro Pro
 275 280 285

Thr

<210> 108
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 108
 Ser Thr Phe Asp Lys Gly Tyr Gly Lys Tyr Phe Ala Ala Gly Glu Lys
 1 5 10 15

Tyr His Thr Ser Ser Val Phe His Lys Ala Gln Arg Ala Arg Trp Lys
 20 25 30

Asn

<210> 109
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 109
 Arg Arg Ser Trp Arg Leu Ser Gly Val His Trp Ser Pro Ile Phe Cys
 1 5 10 15

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Val Leu Arg Gly

35

<210> 113
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 113
 Pro Met Asp Ser Asp Asp Ser His Gly Ser Val Leu Arg Leu Ser Gln
 1 5 10 15
 Ala Leu Gly Asn Val Thr Val Val Gln Lys Gly Glu Arg Asp Ile Leu
 20 25 30
 Ser Asn Gly Gln
 35

<210> 114
 <211> 36
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (33)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 114
 Gln Val Leu Val Cys Ser Gln Glu Gly Ser Ser Ala Gly Val Glu Gly
 1 5 10 15
 Lys Gly Thr Ser Cys Arg Ala Pro Trp Ala Ser Trp Tyr Thr Gly Arg
 20 25 30
 Xaa Leu Leu Asp
 35

<210> 115
 <211> 40
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 115
 His Arg Xaa Gln Met Gly Pro Ala Leu Ser Trp Trp Pro Arg Leu Ala
 1 5 10 15
 Pro Ala Leu Ser Pro Gly Ser Ala Thr Lys Pro Ser Arg Ser Thr
 20 25 30
 Val Ala Pro Pro Pro Pro Pro Thr

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35

40

<210> 116
 <211> 138
 <212> PRT
 <213> Homo sapiens

<400> 116
 Cys Cys Arg Asn Ser Ala Arg Gly Gln Ser Gly Leu Ala Asp Glu Val
 1 5 10 15
 Arg Ser Ile Pro Phe Gly Pro Gly Met Val Thr Arg Ala Gly Ala Gly
 20 25 30
 Thr Ala Val Ala Gly Ala Val Val Val Ala Leu Leu Ser Ala Ala Leu
 35 40 45
 Ala Leu Tyr Gly Pro Pro Leu Asp Ala Val Leu Glu Arg Ala Phe Ser
 50 55 60
 Leu Arg Lys Ala His Ser Ile Lys Asp Met Glu Asn Thr Leu Gln Leu
 65 70 75 80
 Val Arg Asn Ile Ile Pro Pro Leu Ser Ser Thr Lys His Lys Gly Gln
 85 90 95
 Asp Gly Arg Ile Gly Val Val Gly Gly Cys Gln Glu Tyr Thr Gly Ala
 100 105 110
 Pro Tyr Phe Ala Glu Ser Gln Leu Ser Lys Trp Ala Gln Thr Cys Pro
 115 120 125
 Thr Cys Ser Val Pro Val Arg Pro His Leu
 130 135

<210> 117
 <211> 366
 <212> PRT
 <213> Homo sapiens

<400> 117
 Ala Arg Gly Gln Ser Gly Leu Ala Asp Glu Val Arg Ser Ile Pro Phe
 1 5 10 15
 Gly Pro Gly Met Val Thr Arg Ala Gly Ala Gly Thr Ala Val Ala Gly
 20 25 30
 Ala Val Val Val Ala Leu Leu Ser Ala Ala Leu Ala Leu Tyr Gly Pro
 35 40 45
 Pro Leu Asp Ala Val Leu Glu Arg Ala Phe Ser Leu Arg Lys Ala His
 50 55 60
 Ser Ile Lys Asp Met Glu Asn Thr Leu Gln Leu Val Arg Asn Ile Ile
 65 70 75 80

Pro Pro Leu Ser Ser Thr Lys His Lys Gly Gln Asp Gly Arg Ile Gly
 85 90 95
 Val Val Gly Gly Cys Gln Glu Tyr Thr Gly Ala Pro Tyr Phe Ala Ala
 100 105 110
 Ile Ser Ala Leu Lys Val Gly Ala Asp Leu Ser His Val Phe Cys Ala
 115 120 125
 Ser Ala Ala Ala Pro Val Ile Lys Ala Tyr Ser Pro Glu Leu Ile Val
 130 135 140
 His Pro Val Leu Asp Ser Pro Asn Ala Val His Glu Val Glu Lys Trp
 145 150 155 160
 Leu Pro Arg Leu His Ala Leu Val Val Gly Pro Gly Leu Gly Arg Asp
 165 170 175
 Asp Ala Leu Leu Arg Asn Val Gln Gly Ile Leu Glu Val Ser Lys Ala
 180 185 190
 Arg Asp Ile Pro Val Val Ile Asp Ala Asp Gly Leu Trp Leu Val Ala
 195 200 205
 Gln Gln Pro Ala Leu Ile His Gly Tyr Arg Lys Ala Val Leu Thr Pro
 210 215 220
 Asn His Val Glu Phe Ser Arg Leu Tyr Asp Ala Val Leu Arg Gly Pro
 225 230 235 240
 Met Asp Ser Asp Asp Ser His Gly Ser Val Leu Arg Leu Ser Gln Ala
 245 250 255
 Leu Gly Asn Val Thr Val Val Gln Lys Gly Glu Arg Asp Ile Leu Ser
 260 265 270
 Asn Gly Gln Gln Val Leu Val Cys Ser Gln Glu Gly Ser Ser Arg Arg
 275 280 285
 Cys Gly Gly Gln Gly Asp Leu Leu Ser Gly Ser Leu Gly Val Leu Val
 290 295 300
 His Trp Ala Leu Leu Ala Gly Pro Gln Lys Thr Asn Gly Ser Ser Pro
 305 310 315 320
 Leu Leu Val Ala Ala Phe Gly Ala Cys Ser Leu Thr Arg Gln Cys Asn
 325 330 335
 His Gln Ala Phe Gln Lys His Gly Arg Ser Thr Thr Thr Ser Asp Met
 340 345 350
 Ile Ala Glu Val Gly Ala Ala Phe Ser Lys Leu Phe Glu Thr
 355 360 365

<210> 118

<211> 12

<212> PRT

<213> Homo sapiens

<400> 118

Gly Thr Ser Ala Ala Leu Glu Pro Pro Gly Pro Asp
1 5 10

<210> 119

<211> 83

<212> PRT

<213> Homo sapiens

<400> 119

Arg Thr Arg Gln Glu Arg Met Leu Phe Ser Val Ala Leu Ala Glu Met
1 5 10 15

Lys Trp Ala Arg Phe Val Ala Val Met Gln Gly His His Thr Asn Cys
20 25 30

Arg Glu Tyr Cys Gln Ala Ile Phe Arg Thr Asp Ser Ser Pro Gly Pro
35 40 45

Ser Gln Ile Lys Ala Val Glu Asn Tyr Cys Ala Ser Ile Ser Pro Gln
50 55 60

Leu Ile His Cys Val Asn Asn Tyr Thr Ser Ile Leu Ser Asn Glu Glu
65 70 75 80

Pro Asn Gly

<210> 120

<211> 34

<212> PRT

<213> Homo sapiens

<400> 120

Arg Thr Arg Gln Glu Arg Met Leu Phe Ser Val Ala Leu Ala Glu Met
1 5 10 15

Lys Trp Ala Arg Phe Val Ala Val Met Gln Gly His His Thr Asn Cys
20 25 30

Arg Glu

<210> 121

<211> 26

<212> PRT

<213> Homo sapiens

<400> 121

Tyr Cys Gln Ala Ile Phe Arg Thr Asp Ser Ser Pro Gly Pro Ser Gln
1 5 10 15

Ile Lys Ala Val Glu Asn Tyr Cys Ala Ser

25

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<400> 122
Ile Ser Pro Gln Leu Ile His Cys Val Asn Asn Tyr Thr Ser Ile Leu
  1                      5              10              15
Ser Asn Glu Glu Pro Asn Gly
          20
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<400> 123
His Glu Arg Cys Pro Ala Pro Val Pro Ser Val Asn Pro Leu Ser Leu
  1                               5                10              15

Trp Cys Trp Phe Arg Ser Arg Leu Gln Gln Asn Asp Leu Gly Thr Ser
      20                25                30

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<400> 124
His Glu Pro Ser Gln Leu Pro Arg Pro His Ser Ser Thr Gly Trp Ser
  1                      5                      10                      15

Gly Arg Lys Trp Ala Leu Lys Thr Gly Phe Ser Ala Ser Ala Ser Arg
      20                      25                      30

Lys Pro Glu Pro Trp Arg Cys Arg Ala Thr Val Cys Pro Pro Arg Val
      35                      40                      45

Thr Thr Ala Ser Ala Ser Ala Gln Ser Ala Asp
  50                      55

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<400> 125
Ala Arg Ala Glu Pro Ala Pro Glu Thr Pro Phe Ile Tyr Arg Leu Glu

1	5	10	15
Arg Gln Glu Val Gly Ser Glu Asp Trp Ile Gln Cys Phe Ser Ile Glu	20	25	30
Lys Ala Gly Ala Val Glu Val Pro Gly Asp Cys Val Pro Ser Glu Gly	35	40	45
Asp Tyr Arg Phe Arg Ile Cys Thr Val Ser Gly His Gly Arg Ser Pro	50	55	60
His Val Val Phe His Gly Ser Ala His Leu Val Pro Thr Ala Arg Leu	65	70	75
Val Ala Gly Leu Glu Asp Val Gln Val Tyr Asp Gly Glu Asp Ala Val	85	90	95
Phe Ser Leu Asp Leu Ser Thr Ile Ile Gln Gly Thr Trp Phe Leu Asn	100	105	110
Gly Glu Glu Leu Lys Ser Asn Glu Pro Glu Gly Gln Val Glu Pro Gly	115	120	125
Ala Leu Arg Tyr Arg Ile Glu Gln Lys Gly Leu Gln His Arg Leu Ile	130	135	140
Leu His Ala Val Lys His Gln Asp Ser Gly Ala Leu Val Gly Phe Ser	145	150	155
Cys Pro Gly Val Gln Asp Ser Ala Ala Leu Thr Ile Gln Glu Ser Pro	165	170	175
Val His Ile Leu Ser Pro Gln Asp Lys Val Ser Leu Thr Phe Thr Thr	180	185	190
Ser Glu Arg Val Val Leu Thr Cys Glu Leu Ser Arg Val Asp Phe Pro	195	200	205
Ala Thr Trp Tyr Lys Asp Gly Gln Lys Val Glu Glu Ser Glu Leu Leu	210	215	220
Val Val Lys Met Asp Gly Arg Lys His Arg Leu Ile Leu Pro Glu Ala	225	230	235
Lys Val Gln Asp Ser Gly Glu Phe Glu Cys Arg Thr Glu Gly Val Ser	245	250	255
Ala Phe Phe Gly Val Thr Val Gln Asp Pro Pro Val His Ile Val Asp	260	265	270
Pro Arg Glu His Val Phe Val His Ala Ile Thr Ser Glu Cys Val Met	275	280	285
Leu Ala Cys Glu Val Asp Arg Glu Asp Ala Pro Val Arg Trp Tyr Lys	290	295	300
Asp Gly Gln Glu Val Glu Glu Ser Asp Phe Val Val Leu Glu Asn Glu	305	310	315
			320

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Gly Pro His Arg Arg Leu Val Leu Pro Ala Thr His Pro Ser Asp Gly
 325 330 335

Gly Glu Phe Gln Cys Val Ala Gly Asp Glu Cys Ala Tyr Phe Thr Val
 340 345 350

Thr Ile Thr Asp Val Ser Ser Trp Ile Val Tyr Pro Ser Gly Lys Val
 355 360 365

Tyr Val Ala Ala Val Arg Leu Glu Arg Val Val Leu Thr Cys Glu Leu
 370 375 380

Cys Arg Pro Trp Ala Glu Val Arg Trp Thr Lys Asp Gly Glu Glu Val
 385 390 395 400

Val Glu Ser Pro Ala Leu Leu Leu Gln Lys Glu Asp Thr Val Arg Arg
 405 410 415

Leu Val Leu Pro Ala Val Gln Leu Glu Asp Ser Gly Glu Tyr Leu Cys
 420 425 430

Glu Ile Asp Asp Glu Ser Ala Ser Phe Thr Val Thr Val Thr Glu Ser
 435 440 445

Tyr Gln Ser Gln Asp Ser Ser Asn Asn Asn Pro Glu Leu Cys Val Leu
 450 455 460

Leu Lys Lys Pro Lys Thr Arg Arg Leu Trp Ser Arg Phe Pro Pro Trp
 465 470 475 480

Arg Arg Thr Ala Gly Thr Glu
 485

<210> 126
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 126
 Ala Arg Ala Glu Pro Ala Pro Glu Thr Pro Phe Ile Tyr Arg Leu Glu
 1 5 10 15

Arg Gln Glu Val Gly Ser Glu Asp Trp Ile Gln Cys Phe Ser Ile Glu
 20 25 30

Lys Ala Gly Ala Val
 35

<210> 127
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 127
 Glu Val Pro Gly Asp Cys Val Pro Ser Glu Gly Asp Tyr Arg Phe Arg

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1 5 10 15
 Ile Cys Thr Val Ser Gly His Gly Arg Ser Pro His Val Val Phe His
 20 25 30

Gly Ser Ala His Leu
 35

<210> 128
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 128
 Val Pro Thr Ala Arg Leu Val Ala Gly Leu Glu Asp Val Gln Val Tyr
 1 5 10 15

Asp Gly Glu Asp Ala Val Phe Ser Leu Asp Leu Ser Thr Ile Ile Gln
 20 25 30

Gly Thr Trp Phe Leu
 35

<210> 129
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 129
 Asn Gly Glu Glu Leu Lys Ser Asn Glu Pro Glu Gly Gln Val Glu Pro
 1 5 10 15

Gly Ala Leu Arg Tyr Arg Ile Glu Gln Lys Gly Leu Gln His Arg Leu
 20 25 30

Ile Leu His Ala Val
 35

<210> 130
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 130
 Lys His Gln Asp Ser Gly Ala Leu Val Gly Phe Ser Cys Pro Gly Val
 1 5 10 15

Gln Asp Ser Ala Ala Leu Thr Ile Gln Glu Ser Pro Val His Ile Leu
 20 25 30

Ser Pro Gln Asp Lys
 35

<210> 131

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<211> 37
 <212> PRT
 <213> Homo sapiens

<400> 131
 Val Ser Leu Thr Phe Thr Thr Ser Glu Arg Val Val Leu Thr Cys Glu
 1 5 10 15
 Leu Ser Arg Val Asp Phe Pro Ala Thr Trp Tyr Lys Asp Gly Gln Lys
 20 25 30
 Val Glu Glu Ser Glu
 35

<210> 132
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 132
 Leu Leu Val Val Lys Met Asp Gly Arg Lys His Arg Leu Ile Leu Pro
 1 5 10 15
 Glu Ala Lys Val Gln Asp Ser Gly Glu Phe Glu Cys Arg Thr Glu Gly
 20 25 30
 Val Ser Ala Phe Phe
 35

<210> 133
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 133
 Gly Val Thr Val Gln Asp Pro Pro Val His Ile Val Asp Pro Arg Glu
 1 5 10 15
 His Val Phe Val His Ala Ile Thr Ser Glu Cys Val Met Leu Ala Cys
 20 25 30
 Glu Val Asp Arg Glu
 35

<210> 134
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 134
 Asp Ala Pro Val Arg Trp Tyr Lys Asp Gly Gln Glu Val Glu Glu Ser
 1 5 10 15
 Asp Phe Val Val Leu Glu Asn Glu Gly Pro His Arg Arg Leu Val Leu
 20 25 30

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<400> 138

Val Thr Glu Ser Tyr Gln Ser Gln Asp Ser Ser Asn Asn Asn Pro Glu
 1 5 10 15

Leu Cys Val Leu Leu Lys Lys Pro Lys Thr Arg Arg Leu Trp Ser Arg
 20 25 30

Phe Pro Pro Trp Arg Arg Thr Ala Gly Thr Glu
 35 40

<210> 139

<211> 510

<212> PRT

<213> Homo sapiens

<400> 139

His Glu Ser Glu Tyr Thr Thr Ser Pro Lys Ser Ser Val Leu Cys Pro
 1 5 10 15

Lys Leu Pro Val Pro Ala Ser Ala Pro Ile Pro Phe Phe His Arg Cys
 20 25 30

Ala Pro Val Asn Ile Ser Cys Tyr Ala Lys Phe Ala Glu Ala Leu Ile
 35 40 45

Thr Phe Val Ser Asp Asn Ser Val Leu His Arg Leu Ile Ser Gly Val
 50 55 60

Met Thr Ser Lys Glu Ile Ile Leu Gly Leu Cys Leu Leu Ser Leu Val
 65 70 75 80

Leu Ser Met Ile Leu Met Val Ile Ile Arg Tyr Ile Ser Arg Val Leu
 85 90 95

Val Trp Ile Leu Thr Ile Leu Val Ile Leu Gly Ser Leu Gly Gly Thr
 100 105 110

Gly Val Leu Trp Trp Pro Tyr Ala Lys Gln Arg Arg Ser Pro Lys Glu
 115 120 125

Thr Val Thr Pro Glu Gln Leu Gln Ile Ala Glu Asp Asn Leu Arg Ala
 130 135 140

Leu Leu Ile Tyr Ala Ile Ser Ala Thr Val Phe Thr Val Ile Leu Phe
 145 150 155 160

Leu Ile Met Leu Val Met Arg Lys Arg Val Ala Leu Thr Ile Ala Leu
 165 170 175

Phe His Val Ala Gly Lys Val Phe Ile His Leu Pro Leu Leu Val Phe
 180 185 190

Gln Pro Phe Trp Thr Phe Phe Ala Leu Val Leu Phe Trp Val Tyr Trp
 195 200 205

Ile Met Thr Leu Leu Phe Leu Gly Thr Thr Gly Ser Pro Val Gln Asn
 210 215 220

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Glu Gln Gly Phe Val Glu Phe Lys Ile Ser Gly Pro Leu Gln Tyr Met
 225 230 235 240
 Trp Trp Tyr His Val Val Gly Leu Ile Trp Ile Ser Glu Phe Ile Leu
 245 250 255
 Ala Cys Gln Gln Met Thr Val Ala Gly Ala Val Val Thr Tyr Tyr Phe
 260 265 270
 Thr Arg Asp Lys Arg Asn Leu Pro Phe Thr Pro Ile Leu Ala Ser Val
 275 280 285
 Asn Arg Leu Ile Arg Tyr His Leu Gly Thr Val Ala Lys Gly Ser Phe
 290 295 300
 Ile Ile Thr Leu Val Lys Ile Pro Arg Met Ile Leu Met Tyr Ile His
 305 310 315 320
 Ser Gln Leu Lys Gly Lys Glu Asn Ala Cys Ala Arg Cys Val Leu Lys
 325 330 335
 Ser Cys Ile Cys Cys Leu Trp Cys Leu Glu Lys Cys Leu Asn Tyr Leu
 340 345 350
 Asn Gln Asn Ala Tyr Thr Ala Thr Ala Ile Asn Ser Thr Asn Phe Cys
 355 360 365
 Thr Ser Ala Lys Asp Ala Phe Val Ile Leu Val Glu Asn Ala Leu Arg
 370 375 380
 Val Ala Thr Ile Asn Thr Val Gly Asp Phe Met Leu Phe Leu Gly Lys
 385 390 395 400
 Val Leu Ile Val Cys Ser Thr Gly Leu Ala Gly Ile Met Leu Leu Asn
 405 410 415
 Tyr Gln Gln Asp Tyr Thr Val Trp Val Leu Pro Leu Ile Ile Val Cys
 420 425 430
 Leu Phe Ala Phe Leu Asp Ala His Cys Phe Leu Ser Ile Tyr Glu Met
 435 440 445
 Val Val Asp Val Leu Phe Leu Cys Phe Ala Ile Asp Thr Lys Tyr Asn
 450 455 460
 Asp Gly Ser Pro Gly Arg Glu Phe Tyr Met Asp Lys Val Leu Met Glu
 465 470 475 480
 Phe Val Glu Asn Ser Arg Lys Ala Met Lys Glu Ala Gly Lys Gly Gly
 485 490 495
 Val Ala Asp Ser Arg Glu Leu Lys Pro Met Leu Lys Lys Arg
 500 505 510

<210> 140

<211> 17

<212> PRT
 <213> Homo sapiens

<400> 140
 Arg Leu Ser Ala Val Gly Ala Val Pro Phe Thr Arg Pro Asp Ala Gly
 1 5 10 15

Val

<210> 141
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 141
 Val Gly Pro Arg Ala Glu Ala
 1 5

<210> 142
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 142
 Gly Thr Arg Arg Ser Trp Gly Met Cys Arg Ala Thr Ala Gly Trp Ser
 1 5 10 15

Pro Ala Glu Pro Pro Leu His Leu Trp
 20 25

<210> 143
 <211> 267
 <212> PRT
 <213> Homo sapiens

<400> 143
 His Glu Lys Glu Leu Gly Asp Val Gln Gly His Gly Arg Val Val Thr
 1 5 10 15

Ser Arg Ala Ala Pro Pro Pro Val Asp Glu Glu Pro Glu Ser Ser Glu
 20 25 30

Val Asp Ala Ala Gly Arg Trp Pro Gly Val Cys Val Ser Arg Thr Ser
 35 40 45

Pro Thr Pro Pro Glu Ser Ala Thr Thr Val Lys Ser Leu Ile Lys Ser
 50 55 60

Phe Asp Leu Gly Arg Pro Gly Gly Ala Gly Gln Asn Ile Ser Val His
 65 70 75 80

Lys Thr Pro Arg Ser Pro Leu Ser Gly Ile Pro Val Arg Thr Ala Pro
 85 90 95

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Ala Ala Ala Val Ser Pro Met Gln Arg His Ser Thr Tyr Ser Ser Val
100 105 110

Arg Pro Ala Ser Arg Gly Val Thr Gln Arg Leu Asp Leu Pro Asp Leu
115 120 125

Pro Leu Ser Asp Ile Leu Lys Gly Arg Thr Glu Thr Leu Lys Pro Asp
130 135 140

Pro His Leu Arg Lys Ser Pro Ser Leu Glu Ser Leu Ser Arg Pro Pro
145 150 155 160

Ser Leu Gly Phe Gly Asp Thr Arg Leu Leu Ser Ala Ser Thr Arg Ala
165 170 175

Trp Lys Pro Gln Ser Lys Leu Ser Val Glu Arg Lys Asp Pro Leu Ala
180 185 190

Ala Leu Ala Arg Glu Tyr Gly Gly Ser Lys Arg Asn Ala Leu Leu Lys
195 200 205

Trp Cys Gln Lys Lys Thr Gln Gly Tyr Ala Lys Arg Asn Leu Leu Leu
210 215 220

Ala Phe Glu Ala Ala Glu Ser Val Gly Ile Lys Pro Ser Leu Glu Leu
225 230 235 240

Ser Glu Met Leu Tyr Thr Asp Arg Pro Asp Trp Gln Ser Val Met Gln
245 250 255

Tyr Val Ala Gln Ile Tyr Lys Tyr Phe Glu Thr
260 265

<210> 144

<211> 42

<212> PRT

<213> Homo sapiens

<400> 144

His Glu Lys Glu Leu Gly Asp Val Gln Gly His Gly Arg Val Val Thr
1 5 10 15

Ser Arg Ala Ala Pro Pro Pro Val Asp Glu Glu Pro Glu Ser Ser Glu
20 25 30

Val Asp Ala Ala Gly Arg Trp Pro Gly Val
35 40

<210> 145

<211> 42

<212> PRT

<213> Homo sapiens

<400> 145

Cys Val Ser Arg Thr Ser Pro Thr Pro Pro Glu Ser Ala Thr Thr Val
1 5 10 15

20250101 10:10:10

Lys Ser Leu Ile Lys Ser Phe Asp Leu Gly Arg Pro Gly Gly Ala Gly
 20 25 30

Gln Asn Ile Ser Val His Lys Thr Pro Arg
 35 40

<210> 146
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 146
 Ser Pro Leu Ser Gly Ile Pro Val Arg Thr Ala Pro Ala Ala Ala Val
 1 5 10 15

Ser Pro Met Gln Arg His Ser Thr Tyr Ser Ser Val Arg Pro Ala Ser
 20 25 30

Arg Gly Val Thr Gln Arg Leu Asp Leu Pro
 35 40

<210> 147
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 147
 Asp Leu Pro Leu Ser Asp Ile Leu Lys Gly Arg Thr Glu Thr Leu Lys
 1 5 10 15

Pro Asp Pro His Leu Arg Lys Ser Pro Ser Leu Glu Ser Leu Ser Arg
 20 25 30

Pro Pro Ser Leu Gly Phe Gly Asp Thr Arg
 35 40

<210> 148
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 148
 Leu Leu Ser Ala Ser Thr Arg Ala Trp Lys Pro Gln Ser Lys Leu Ser
 1 5 10 15

Val Glu Arg Lys Asp Pro Leu Ala Ala Leu Ala Arg Glu Tyr Gly Gly
 20 25 30

Ser Lys Arg Asn Ala Leu Leu Lys Trp Cys
 35 40

<210> 149
 <211> 57

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<212> PRT

<213> Homo sapiens

<400> 149

Gln	Lys	Lys	Thr	Gln	Gly	Tyr	Ala	Lys	Arg	Asn	Leu	Leu	Leu	Ala	Phe
1				5					10					15	

Glu	Ala	Ala	Glu	Ser	Val	Gly	Ile	Lys	Pro	Ser	Leu	Glu	Leu	Ser	Glu
			20					25					30		

Met	Leu	Tyr	Thr	Asp	Arg	Pro	Asp	Trp	Gln	Ser	Val	Met	Gln	Tyr	Val
		35					40					45			

Ala	Gln	Ile	Tyr	Lys	Tyr	Phe	Glu	Thr
	50					55		

<210> 150

<211> 19

<212> PRT

<213> Homo sapiens

<400> 150

Ser	Val	Ser	Lys	Leu	Pro	Ala	Asn	Gly	Lys	Asn	Val	Asp	Asp	Val	Ile
1				5					10					15	

Arg Asn Gln

<210> 151

<211> 138

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 151

Thr	Ser	Met	Thr	Leu	Phe	Arg	Ala	Asp	Thr	Val	Lys	Asn	Ile	Glu	Gly
1				5					10					15	

Glu	Leu	Thr	Gln	Ser	Ala	Arg	Leu	Gly	Cys	Gly	Gly	Gly	Cys	Leu	Gly
			20					25					30		

Gly	Trp	Leu	Gln	Phe	His	Leu	Thr	Val	Ser	Ser	Phe	Ser	Gly	Phe	Glu
		35					40					45			

Val	Arg	Gln	Leu	His	Ala	Gly	Gly	Ala	Arg	Lys	Ala	Glu	Ser	Arg	Gln
	50					55				60					

Gly	Ser	Asp	Thr	Gly	Glu	Arg	Ala	Cys	Asp	Leu	Leu	Ala	Asp	Thr	Asn
65					70					75					80

Pro	Val	Ala	Arg	Gly	His	His	Phe	Gln	Gly	Cys	Trp	Glu	Gly	Pro	Gln
				85					90					95	

100
 90
 80
 70
 60
 50
 40
 30
 20
 10
 0

Leu Trp His
35

<210> 155
 <211> 33
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 155
 Gly His Ser Gly Xaa Pro Ser Leu His Ala Pro Pro Thr Ser Ala Ser
 1 5 10 15

His Pro Phe His Phe Leu Pro Thr Thr Met His Leu His Ser Glu Ser
 20 25 30

Ser

<210> 156
 <211> 107
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (53)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 156
 Glu Arg Ala Ser Ala Trp Pro Gly His Ser Pro Phe Ser Cys Thr Leu
 1 5 10 15

Arg His Pro Lys Thr Leu Ala Val Ser Pro Ala Pro Val Tyr Leu Leu
 20 25 30

Ser Ser Ser Ala Leu Phe Leu Pro Leu Thr Xaa Leu Pro Gly Ile Leu
 35 40 45

Ser Gln Pro Glu Xaa Asn Pro Asn Arg Asn Glu Met Leu Ser Gly Asn
 50 55 60

Leu Thr Lys Glu Ala Gln Ser His Phe Val Leu Pro Ser Pro His Ile
 65 70 75 80

Pro Arg Thr Thr Ala Tyr Phe Lys Arg Thr Gln Thr Ile His Leu Tyr
 85 90 95

Lys Gly Thr Ala Arg Lys Arg Ser Arg Gln Arg
 100 105

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<400> 159
Ser His Phe Val Leu Pro Ser Pro His Ile Pro Arg Thr Thr Ala Tyr
  1             5             10             15

Phe Lys Arg Thr Gln Thr Ile His Leu Tyr Lys Gly Thr Ala Arg Lys
      20             25             30

Arg Ser Arg Gln Arg
      35

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<210> 160
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 160
 Lys Val Pro Asn Pro Leu Val Val Thr Ser Ile His Pro Thr Leu Ala
 1 5 10 15
 Gln Leu Gln Ile Ala Thr Arg Ser His Ser Ser Ser Cys Cys Leu Tyr
 20 25 30
 Arg Phe Ser Asn Ser Gly His Phe Ile Ser Met Glu Ser Tyr Asn
 35 40 45

<210> 161
 <211> 218
 <212> PRT
 <213> Homo sapiens

<400> 161
 Gly Pro Ser Trp Pro Leu Trp Pro Arg Ser Ser Leu Gly Pro Cys Leu
 1 5 10 15
 Val Tyr Arg Val Trp Gly Asp Ser Met Cys Thr Pro Leu Leu Ser Gln
 20 25 30
 Val Asp Phe Glu Gln Leu Thr Glu Asn Leu Gly Gln Leu Glu Arg Arg
 35 40 45
 Ser Arg Ala Ala Glu Glu Ser Leu Arg Thr Trp Pro Ser Met Ser Trp
 50 55 60
 Pro Gln Pro Cys Val Pro Ala Ser Pro Thr Ser Trp Thr Ser Val Pro
 65 70 75 80
 Ala Arg Val Ala Met Leu Arg Ile Val His Arg Arg Val Cys Asn Arg
 85 90 95
 Phe His Ala Phe Leu Leu Tyr Leu Gly Tyr Thr Pro Gln Ala Ala Arg
 100 105 110
 Glu Val Arg Ile Met Gln Phe Cys His Thr Leu Arg Glu Phe Ala Leu
 115 120 125
 Glu Tyr Arg Thr Cys Arg Glu Arg Val Leu Gln Gln Gln Gln Lys Gln
 130 135 140
 Ala Thr Tyr Arg Glu Arg Asn Lys Thr Arg Gly Arg Met Ile Thr Glu
 145 150 155 160
 Val Gly Ala Leu Pro Gly Leu Ser Leu Asp Cys His Leu Leu Gly Phe
 165 170 175
 Leu Arg Ser Ser Gln Leu Thr Leu Leu Leu Ser Pro Asp Arg Glu Val

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180 185 190
 Leu Arg Cys Gly Trp Gly Ser Pro Gln Gln Pro Leu Cys Pro Ser Ser
 195 200 205

Ser Glu Gln Arg Ala Arg Pro Gly Arg Cys
 210 215

<210> 162
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 162
 Gly Pro Ser Trp Pro Leu Trp Pro Arg Ser Ser Leu Gly Pro Cys Leu
 1 5 10 15

Val Tyr Arg Val Trp Gly Asp Ser Met Cys Thr Pro Leu Leu Ser Gln
 20 25 30

Val Asp Phe Glu
 35

<210> 163
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 163
 Gln Leu Thr Glu Asn Leu Gly Gln Leu Glu Arg Arg Ser Arg Ala Ala
 1 5 10 15

Glu Glu Ser Leu Arg Thr Trp Pro Ser Met Ser Trp Pro Gln Pro Cys
 20 25 30

Val Pro Ala Ser
 35

<210> 164
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 164
 Pro Thr Ser Trp Thr Ser Val Pro Ala Arg Val Ala Met Leu Arg Ile
 1 5 10 15

Val His Arg Arg Val Cys Asn Arg Phe His Ala Phe Leu Leu Tyr Leu
 20 25 30

Gly Tyr Thr Pro
 35

<210> 165

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<211> 36
 <212> PRT
 <213> Homo sapiens

<400> 165
 Gln Ala Ala Arg Glu Val Arg Ile Met Gln Phe Cys His Thr Leu Arg
 1 5 10 15
 Glu Phe Ala Leu Glu Tyr Arg Thr Cys Arg Glu Arg Val Leu Gln Gln
 20 25 30
 Gln Gln Lys Gln
 35

<210> 166
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 166
 Ala Thr Tyr Arg Glu Arg Asn Lys Thr Arg Gly Arg Met Ile Thr Glu
 1 5 10 15
 Val Gly Ala Leu Pro Gly Leu Ser Leu Asp Cys His Leu Leu Gly Phe
 20 25 30
 Leu Arg Ser Ser
 35

<210> 167
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 167
 Gln Leu Thr Leu Leu Ser Pro Asp Arg Glu Val Leu Arg Cys Gly
 1 5 10 15
 Trp Gly Ser Pro Gln Gln Pro Leu Cys Pro Ser Ser Ser Glu Gln Arg
 20 25 30
 Ala Arg Pro Gly Arg Cys
 35

<210> 168
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 168
 Gly Ala Leu Leu Pro Gly Pro Gly Ser Ser Pro Phe Ser Pro Phe Gly
 1 5 10 15
 Leu Leu Cys Gln Gly Leu Leu Gln Pro Pro Gly Cys Glu Leu Cys Pro
 20 25 30

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<210> 169
<211> 702
<212> PRT
<213> Homo sapiens
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<400> 169															
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Lys	Pro	Lys	Val 20	Ile	Ala	Val	Thr	Arg 25	Ser	Thr	Ser	Ser	Thr 30	Ser	Ser
Gly	Ser	Asn 35	Ser	Asn	Ala	Leu	Val 40	Pro	Val	Ser	Trp	Lys 45	Arg	Pro	Gln
Leu	Ser 50	Gln	Arg	Arg	Thr	Arg 55	Glu	Lys	Leu	Met	Asn 60	Val	Leu	Ser	Leu
Cys 65	Gly	Pro	Glu	Ser	Gly 70	Leu	Pro	Lys	Asn	Pro 75	Ser	Val	Val	Phe	Ser 80
Ser	Asn	Glu	Asp	Leu 85	Glu	Val	Gly	Asp	Gln 90	Gln	Thr	Ser	Leu	Ile 95	Ser
Thr	Thr	Glu	Asp 100	Ile	Asn	Gln	Glu	Glu 105	Glu	Val	Ala	Val	Glu 110	Asp	Asn
Ser	Ser	Glu 115	Gln	Gln	Phe	Gly	Val 120	Phe	Lys	Asp	Phe	Asp 125	Phe	Leu	Asp
Val	Glu 130	Leu	Glu	Asp	Ala	Glu	Gly 135	Glu	Ser	Met	Asp 140	Asn	Phe	Asn	Trp
Gly 145	Val	Arg	Arg	Arg	Ser 150	Leu	Asp	Ser	Ile	Asp 155	Lys	Gly	Asp	Thr	Pro 160
Ser	Leu	Gln	Glu	Tyr 165	Gln	Cys	Ser	Ser	Ser 170	Thr	Pro	Ser	Leu	Asn 175	Leu
Thr	Asn	Gln	Glu 180	Asp	Thr	Asp	Glu	Ser 185	Ser	Glu	Glu	Glu	Ala 190	Ala	Leu
Thr	Ala	Ser 195	Gln	Ile	Leu	Ser	Arg 200	Thr	Gln	Met	Leu	Asn 205	Ser	Asp	Ser
Ala	Thr 210	Asp	Glu	Thr	Ile	Pro 215	Asp	His	Pro	Asp	Leu 220	Leu	Leu	Gln	Ser
Glu 225	Asp	Ser	Thr	Gly	Ser 230	Ile	Thr	Thr	Glu	Glu 235	Val	Leu	Gln	Ile	Arg 240
Asp	Glu	Thr	Pro	Thr 245	Leu	Glu	Ala	Ser	Leu 250	Asp	Asn	Ala	Asn	Ser	Arg 255

Leu Pro Glu Asp Thr Thr Ser Val Leu Lys Glu Glu His Val Thr Thr
 260 265 270
 Phe Glu Asp Glu Gly Ser Tyr Ile Ile Gln Glu Gln Gln Glu Ser Leu
 275 280 285
 Val Cys Gln Gly Ile Leu Asp Leu Glu Glu Thr Glu Met Pro Glu Pro
 290 295 300
 Leu Ala Pro Glu Ser Tyr Pro Glu Ser Val Cys Glu Glu Asp Val Thr
 305 310 315 320
 Leu Ala Leu Lys Glu Leu Asp Glu Arg Cys Glu Glu Glu Glu Ala Asp
 325 330 335
 Phe Ser Gly Leu Ser Ser Gln Asp Glu Glu Glu Gln Asp Gly Phe Pro
 340 345 350
 Glu Val Gln Thr Ser Pro Leu Pro Ser Pro Phe Leu Ser Ala Ile Ile
 355 360 365
 Ala Ala Phe Gln Pro Val Ala Tyr Asp Asp Glu Glu Glu Ala Trp Arg
 370 375 380
 Cys His Val Asn Gln Met Leu Ser Asp Thr Asp Gly Ser Ser Ala Val
 385 390 395 400
 Phe Thr Phe His Val Phe Ser Arg Leu Phe Gln Thr Ile Gln Arg Lys
 405 410 415
 Phe Gly Glu Ile Thr Asn Glu Ala Val Ser Phe Leu Gly Asp Ser Leu
 420 425 430
 Gln Arg Ile Gly Thr Lys Phe Lys Ser Ser Leu Glu Val Met Met Leu
 435 440 445
 Cys Ser Glu Cys Pro Thr Val Phe Val Asp Ala Glu Thr Leu Met Ser
 450 455 460
 Cys Gly Leu Leu Glu Thr Leu Lys Phe Gly Val Leu Glu Leu Gln Glu
 465 470 475 480
 His Leu Asp Thr Tyr Asn Val Lys Arg Glu Ala Ala Glu Gln Trp Leu
 485 490 495
 Asp Asp Cys Lys Arg Thr Phe Gly Ala Lys Glu Asp Met Tyr Arg Ile
 500 505 510
 Asn Thr Asp Ala Gln Glu Leu Glu Leu Cys Arg Arg Leu Tyr Lys Leu
 515 520 525
 His Phe Gln Leu Leu Leu Leu Phe Gln Ala Tyr Cys Lys Leu Ile Asn
 530 535 540
 Gln Val Asn Thr Ile Lys Asn Glu Ala Glu Val Ile Asn Met Ser Glu
 545 550 555 560

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Glu Leu Ala Gln Leu Glu Ser Ile Leu Lys Glu Ala Glu Ser Ala Ser
565 570 575

Glu Asn Glu Glu Ile Asp Ile Ser Lys Ala Ala Gln Thr Thr Ile Glu
580 585 590

Thr Ala Ile His Ser Leu Ile Glu Thr Leu Lys Asn Lys Glu Phe Ile
595 600 605

Ser Ala Val Ala Gln Val Lys Ala Phe Arg Ser Leu Trp Pro Ser Asp
610 615 620

Ile Phe Gly Ser Cys Glu Asp Asp Pro Val Gln Thr Leu Ile His Ile
625 630 635 640

Tyr Phe His His Gln Thr Leu Gly Gln Thr Gly Ser Phe Ala Val Ile
645 650 655

Gly Ser Asn Leu Asp Met Ser Glu Ala Asn Tyr Lys Leu Met Glu Leu
660 665 670

Asn Leu Glu Ile Arg Glu Ser Leu Arg Met Val Gln Ser Tyr Gln Leu
675 680 685

Leu Ala Gln Ala Lys Pro Met Gly Asn Met Val Ser Thr Gly
690 695 700

<210> 170

<211> 37

<212> PRT

<213> Homo sapiens

<400> 170

Gly Thr Ser Lys Tyr Gly Asp Gln His Ser Ala Ala Gly Arg Asn Gly
1 5 10 15

Lys Pro Lys Val Ile Ala Val Thr Arg Ser Thr Ser Ser Thr Ser Ser
20 25 30

Gly Ser Asn Ser Asn
35

<210> 171

<211> 37

<212> PRT

<213> Homo sapiens

<400> 171

Ala Leu Val Pro Val Ser Trp Lys Arg Pro Gln Leu Ser Gln Arg Arg
1 5 10 15

Thr Arg Glu Lys Leu Met Asn Val Leu Ser Leu Cys Gly Pro Glu Ser
20 25 30

Gly Leu Pro Lys Asn
35

10040440400

<210> 172
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 172
 Pro Ser Val Val Phe Ser Ser Asn Glu Asp Leu Glu Val Gly Asp Gln
 1 5 10 15
 Gln Thr Ser Leu Ile Ser Thr Thr Glu Asp Ile Asn Gln Glu Glu Glu
 20 25 30
 Val Ala Val Glu Asp
 35

<210> 173
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 173
 Asn Ser Ser Glu Gln Gln Phe Gly Val Phe Lys Asp Phe Asp Phe Leu
 1 5 10 15
 Asp Val Glu Leu Glu Asp Ala Glu Gly Glu Ser Met Asp Asn Phe Asn
 20 25 30
 Trp Gly Val Arg Arg
 35

<210> 174
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 174
 Arg Ser Leu Asp Ser Ile Asp Lys Gly Asp Thr Pro Ser Leu Gln Glu
 1 5 10 15
 Tyr Gln Cys Ser Ser Ser Thr Pro Ser Leu Asn Leu Thr Asn Gln Glu
 20 25 30
 Asp Thr Asp Glu Ser
 35

<210> 175
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 175
 Ser Glu Glu Glu Ala Ala Leu Thr Ala Ser Gln Ile Leu Ser Arg Thr
 1 5 10 15

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<213> Homo sapiens

Glu Ala Asp Phe Ser Gly Leu Ser Ser Gln Asp Glu Glu Glu Gln Asp
1 5 10 15

Gly Phe Pro Glu Val Gln Thr Ser Pro Leu Pro Ser Pro Phe Leu Ser
20 25 30

Ala Ile Ile Ala Ala
35

<211> 37

<213> Homo sapiens

Phe Gln Pro Val Ala Tyr Asp Asp Glu Glu Glu Ala Trp Arg Cys His
1 5 10 15

Val Asn Gln Met Leu Ser Asp Thr Asp Gly Ser Ser Ala Val Phe Thr
20 25 30

Phe His Val Phe Ser
35

<211> 37

<213> Homo sapiens

Arg Leu Phe Gln Thr Ile Gln Arg Lys Phe Gly Glu Ile Thr Asn Glu
1 5 10 15

Ala Val Ser Phe Leu Gly Asp Ser Leu Gln Arg Ile Gly Thr Lys Phe
20 25 30

Lys Ser Ser Leu Glu
35

<211> 37

<213> Homo sapiens

Val Met Met Leu Cys Ser Glu Cys Pro Thr Val Phe Val Asp Ala Glu
1 5 10 15

Thr Leu Met Ser Cys Gly Leu Leu Glu Thr Leu Lys Phe Gly Val Leu
20 25 30

Glu Leu Gln Glu His
35

<210> 183
<211> 37
<212> PRT
<213> Homo sapiens

<400> 183
Leu Asp Thr Tyr Asn Val Lys Arg Glu Ala Ala Glu Gln Trp Leu Asp
1 5 10 15
Asp Cys Lys Arg Thr Phe Gly Ala Lys Glu Asp Met Tyr Arg Ile Asn
20 25 30

Thr Asp Ala Gln Glu
35

<210> 184
<211> 37
<212> PRT
<213> Homo sapiens

<400> 184
Leu Glu Leu Cys Arg Arg Leu Tyr Lys Leu His Phe Gln Leu Leu Leu
1 5 10 15
Leu Phe Gln Ala Tyr Cys Lys Leu Ile Asn Gln Val Asn Thr Ile Lys
20 25 30

Asn Glu Ala Glu Val
35

<210> 185
<211> 37
<212> PRT
<213> Homo sapiens

<400> 185
Ile Asn Met Ser Glu Glu Leu Ala Gln Leu Glu Ser Ile Leu Lys Glu
1 5 10 15
Ala Glu Ser Ala Ser Glu Asn Glu Glu Ile Asp Ile Ser Lys Ala Ala
20 25 30

Gln Thr Thr Ile Glu
35

<210> 186
<211> 37
<212> PRT
<213> Homo sapiens

<400> 186

100444-0110

Thr Ala Ile His Ser Leu Ile Glu Thr Leu Lys Asn Lys Glu Phe Ile
1 5 10 15

Ser Ala Val Ala Gln Val Lys Ala Phe Arg Ser Leu Trp Pro Ser Asp
20 25 30

Ile Phe Gly Ser Cys
35

<210> 187

<211> 37

<212> PRT

<213> Homo sapiens

<400> 187

Glu Asp Asp Pro Val Gln Thr Leu Ile His Ile Tyr Phe His His Gln
1 5 10 15

Thr Leu Gly Gln Thr Gly Ser Phe Ala Val Ile Gly Ser Asn Leu Asp
20 25 30

Met Ser Glu Ala Asn
35

<210> 188

<211> 36

<212> PRT

<213> Homo sapiens

<400> 188

Tyr Lys Leu Met Glu Leu Asn Leu Glu Ile Arg Glu Ser Leu Arg Met
1 5 10 15

Val Gln Ser Tyr Gln Leu Leu Ala Gln Ala Lys Pro Met Gly Asn Met
20 25 30

Val Ser Thr Gly
35

<210> 189

<211> 703

<212> PRT

<213> Homo sapiens

<400> 189

Gly Thr Ser Lys Tyr Gly Asp Gln His Ser Ala Ala Gly Arg Asn Gly
1 5 10 15

Lys Pro Lys Val Ile Ala Val Thr Arg Ser Thr Ser Ser Thr Ser Ser
20 25 30

Gly Ser Asn Ser Asn Ala Leu Val Pro Val Ser Trp Lys Arg Pro Gln
35 40 45

Leu Ser Gln Arg Arg Thr Arg Glu Lys Leu Met Asn Val Leu Ser Leu

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50 55 60
 Cys Gly Pro Glu Ser Gly Leu Pro Lys Asn Pro Ser Val Val Phe Ser
 65 70 75 80
 Ser Asn Glu Asp Leu Glu Val Gly Asp Gln Gln Thr Ser Leu Ile Ser
 85 90 95
 Thr Thr Glu Asp Ile Asn Gln Glu Glu Glu Val Ala Val Glu Asp Asn
 100 105 110
 Ser Ser Glu Gln Gln Phe Gly Val Phe Lys Asp Phe Asp Phe Leu Asp
 115 120 125
 Val Glu Leu Glu Asp Ala Glu Gly Glu Ser Met Asp Asn Phe Asn Trp
 130 135 140
 Gly Val Arg Arg Arg Ser Leu Asp Ser Ile Asp Lys Gly Asp Thr Pro
 145 150 155 160
 Ser Leu Gln Glu Tyr Gln Cys Ser Ser Ser Thr Pro Ser Leu Asn Leu
 165 170 175
 Thr Asn Gln Glu Asp Thr Asp Glu Ser Ser Glu Glu Glu Ala Ala Leu
 180 185 190
 Thr Ala Ser Gln Ile Leu Ser Arg Thr Gln Met Leu Asn Ser Asp Ser
 195 200 205
 Ala Thr Asp Glu Thr Ile Pro Asp His Pro Asp Leu Leu Leu Gln Ser
 210 215 220
 Glu Asp Ser Thr Gly Ser Ile Thr Thr Glu Glu Val Leu Gln Ile Arg
 225 230 235 240
 Asp Glu Thr Pro Thr Leu Glu Ala Ser Leu Asp Asn Ala Asn Ser Arg
 245 250 255
 Leu Pro Glu Asp Thr Thr Ser Val Leu Lys Glu Glu His Val Thr Thr
 260 265 270
 Phe Glu Asp Glu Gly Ser Tyr Ile Ile Gln Glu Gln Gln Glu Ser Leu
 275 280 285
 Val Cys Gln Gly Ile Leu Asp Leu Glu Glu Thr Glu Met Pro Glu Pro
 290 295 300
 Leu Ala Pro Glu Ser Tyr Pro Glu Ser Val Cys Glu Glu Asp Val Thr
 305 310 315 320
 Leu Ala Leu Lys Glu Leu Asp Glu Arg Cys Glu Glu Glu Glu Ala Asp
 325 330 335
 Phe Ser Gly Leu Ser Ser Gln Asp Glu Glu Glu Gln Asp Gly Phe Pro
 340 345 350
 Glu Val Gln Thr Ser Pro Leu Pro Ser Pro Phe Leu Ser Ala Ile Ile
 355 360 365

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Ala Ala Phe Gln Pro Val Ala Tyr Asp Asp Glu Glu Glu Ala Trp Arg
 370 375 380
 Cys His Val Asn Gln Met Leu Ser Asp Thr Asp Gly Ser Ser Ala Val
 385 390 395 400
 Phe Thr Phe His Val Phe Ser Arg Leu Phe Gln Thr Ile Gln Arg Lys
 405 410 415
 Phe Gly Glu Ile Thr Asn Glu Ala Val Ser Phe Leu Gly Asp Ser Leu
 420 425 430
 Gln Arg Ile Gly Thr Lys Phe Lys Ser Ser Leu Glu Val Met Met Leu
 435 440 445
 Cys Ser Glu Cys Pro Thr Val Phe Val Asp Ala Glu Thr Leu Met Ser
 450 455 460
 Cys Gly Leu Leu Glu Thr Leu Lys Phe Gly Val Leu Glu Leu Gln Glu
 465 470 475 480
 His Leu Asp Thr Tyr Asn Val Lys Arg Glu Ala Ala Glu Gln Trp Leu
 485 490 495
 Asp Asp Cys Lys Arg Thr Phe Gly Ala Lys Glu Asp Met Tyr Arg Ile
 500 505 510
 Asn Thr Asp Ala Gln Glu Leu Glu Leu Cys Arg Arg Leu Tyr Lys Leu
 515 520 525
 His Phe Gln Leu Leu Leu Leu Phe Gln Ala Tyr Cys Lys Leu Ile Asn
 530 535 540
 Gln Val Asn Thr Ile Lys Asn Glu Ala Glu Val Ile Asn Met Ser Glu
 545 550 555 560
 Glu Leu Ala Gln Leu Glu Ser Ile Leu Lys Glu Ala Glu Ser Ala Ser
 565 570 575
 Glu Asn Glu Glu Ile Asp Ile Ser Lys Ala Ala Gln Thr Thr Ile Glu
 580 585 590
 Thr Ala Ile His Ser Leu Ile Glu Thr Leu Lys Asn Lys Glu Phe Ile
 595 600 605
 Ser Ala Val Ala Gln Val Lys Ala Phe Arg Ser Leu Trp Pro Ser Asp
 610 615 620
 Ile Phe Gly Ser Cys Glu Asp Asp Pro Val Gln Thr Leu Ile His Ile
 625 630 635 640
 Tyr Phe His His Gln Thr Leu Gly Gln Thr Gly Ser Phe Ala Val Ile
 645 650 655
 Gly Ser Asn Leu Asp Met Ser Glu Ala Asn Tyr Lys Leu Met Glu Leu
 660 665 670

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Glu Gln Gln Glu Ser Leu Val Cys Gln Gly Ile Leu Asp Leu Glu Glu
225 230 235 240

Thr Glu Met Pro Glu Pro Leu Ala Pro Glu Ser Tyr Pro Glu Ser Val
 245 250 255
 Cys Glu Glu Asp Val Thr Leu Ala Leu Lys Glu Leu Asp Glu Arg Cys
 260 265 270
 Glu Glu Glu Glu Ala Asp Phe Ser Gly Leu Ser Ser Gln Asp Glu Glu
 275 280 285
 Glu Gln Asp Gly Phe Pro Glu Val Gln Thr Ser Pro Leu Pro Ser Pro
 290 295 300
 Phe Leu Ser Ala Ile Ile Ala Ala Phe Gln Pro Val Ala Tyr Asp Asp
 305 310 315 320
 Glu Glu Glu Ala Trp Arg Cys His Val Asn Gln Met Leu Ser Asp Thr
 325 330 335
 Asp Gly Ser Ser Ala Val Phe Thr Phe His Val Phe Ser Arg Leu Phe
 340 345 350
 Gln Thr Ile Gln Arg Lys Phe Gly Glu Ile Thr Asn Glu Ala Val Ser
 355 360 365
 Phe Leu Gly Asp Ser Leu Gln Arg Ile Gly Thr Lys Phe Lys Ser Ser
 370 375 380
 Leu Glu Val Met Met Leu Cys Ser Glu Cys Pro Thr Val Phe Val Asp
 385 390 395 400
 Ala Glu Thr Leu Met Ser Cys Gly Leu Leu Glu Thr Leu Lys Phe Gly
 405 410 415
 Val Leu Glu Leu Gln Glu His Leu Asp Thr Tyr Asn Val Lys Arg Glu
 420 425 430
 Ala Ala Glu Gln Trp Leu Asp Asp Cys Lys Arg Thr Phe Gly Ala Lys
 435 440 445
 Glu Asp Met Tyr Arg Ile Asn Thr Asp Ala Gln Glu Leu Glu Leu Cys
 450 455 460
 Arg Arg Leu Tyr Lys Leu His Phe Gln Leu Leu Leu Leu Phe Gln Ala
 465 470 475 480
 Tyr Cys Lys Leu Ile Asn Gln Val Asn Thr Ile Lys Asn Glu Ala Glu
 485 490 495
 Val Ile Asn Met Ser Glu Glu Leu Ala Gln Leu Glu Ser Ile Leu Lys
 500 505 510
 Glu Ala Glu Ser Ala Ser Glu Asn Glu Glu Ile Asp Ile Ser Lys Ala
 515 520 525
 Ala Gln Thr Thr Ile Glu Thr Ala Ile His Ser Leu Ile Glu Thr Leu
 530 535 540
 Lys Asn Lys Glu Phe Ile Ser Ala Val Ala Gln Val Lys Ala Phe Arg

545		550		555		560
Ser Leu Trp Pro	Ser Asp Ile Phe Gly	Ser Cys Glu Asp Asp	Pro Val			
	565	570	575			
Gln Thr Leu Ile His Ile Tyr Phe His His Gln Thr Leu Gly Gln Thr	580	585	590			
Gly Ser Phe Ala Val Ile Gly Ser Asn Leu Asp Met Ser Glu Ala Asn	595	600	605			
Tyr Lys Leu Met Glu Leu Asn Leu Glu Ile Arg Glu Ser Leu Arg Met	610	615	620			
Val Gln Ser Tyr Gln Leu Leu Ala Gln Ala Lys Pro Met Gly Asn Met	625	630	635	640		
Val Ser Thr Gly Phe	645					

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